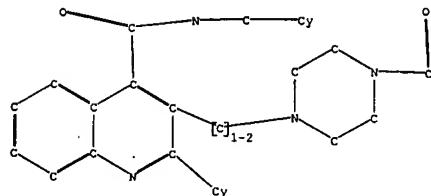
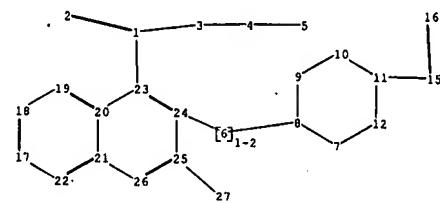


EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	209	@pd>"20060101" and (544/363 or 514/253.06)".ccls"	US-PGPUB; USPAT	OR	OFF	2007/08/19 19:59



10/5/745



chain nodes :

1 2 3 4 5 6 15 16 27

ring nodes :

7 8 9 10 11 12 17 18 19 20 21 22 23 24 25 26

chain bonds :

1-3 1-2 1-23 3-4 4-5 6-8 6-24 11-15 15-16 25-27

ring bonds :

7-8 7-12 8-9 9-10 10-11 11-12 17-18 17-22 18-19 19-20 20-21 20-23 21-22
21-26 23-24 24-25 25-26

exact/norm bonds :

1-3 1-2 3-4 4-5 6-8 7-8 7-12 8-9 9-10 10-11 11-12 11-15 15-16 25-27

exact bonds :

1-23 6-24

normalized bonds :

17-18 17-22 18-19 19-20 20-21 20-23 21-22 21-26 23-24 24-25 25-26

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:Atom 6:CLASS 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 15:CLASS 16:CLASS 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom

PCT/us04/20333

FULL SCREEN SEARCH COMPLETED - 97 TO ITERATE

100.0% PROCESSED 97 ITERATIONS 84 ANSWERS
SEARCH TIME: 00.00.01

L3 84 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
155.84 156.05

FILE 'CAPLUS' ENTERED AT 16:41:11 ON 05 DEC 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 5 Dec 2004 VOL 141 ISS 24
FILE LAST UPDATED: 3 Dec 2004 (20041203/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13
L4 8 L3

=> d 14 1-8 bib abs hitstr

L4 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:648345 CAPLUS

DN 141:190803

TI Preparation of quinoline derivatives as NK-2 and NK-3 receptor antagonists

IN Kerns, Jeffrey; Jin, Qi; Wan, Zehong; Nie, Hong; Zhu, Chongjie

PA Smithkline Beecham Corporation, USA

SO PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT. 1

N.A.

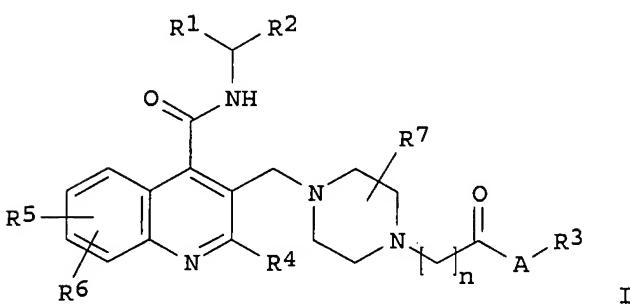
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI WO 2004066950	A2	20040812	WO 2004-US2366	20040129
WO 2004066950	A3	20041104		

W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG,
 BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR,
 CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES,
 ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN,
 IS, JP, JP, KE, KE, KG, KG, KP, KP, KR, KR, KR, KZ, KZ, LC,
 LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX,
 MZ, MZ, NA, NI

PRAI US 2003-443650P P 20030130

OS MARPAT 141:190803

GI



AB The title compds. [I; R1 = H, (un)substituted alkyl; R2 = (un)substituted aryl, cycloalkyl, heterocyclyl; R3 = H, (un)substituted alkyl, cycloalkyl, aryl, heterocyclyl; A = NR8, O (R8 = H, (un)substituted alkyl); R4 = (un)substituted heterocyclyl; R5 = H, alkyl, alkenyl, aryl, etc.; or R5 represents a bridging moiety which is arranged to bridge two adjacent ring atoms, wherein the bridging moiety comprises alkylene or dioxyalkylene; R6 = H, halo; R7 = oxo; n = 1-4] which are NK2 and NK3 receptor antagonists and are useful in the treatment of respiratory diseases, were prepared E.g., a 4-step synthesis of 3-(4-dimethylcarbamoylmethyl-3-oxopiperazin-1-ylmethyl)-2-(thiophen-2-yl)quinoline-4-carboxylic acid [(S)-1-cyclohexylethyl]amide, was given. The most potent compds. I show IC50 in the range 10-1000 nM against NK-3 receptor binding, and IC50 in the range 1-1000 nM against NK-2 receptor binding. The pharmaceutical composition comprising the compound I is claimed.

IT 737804-44-3P

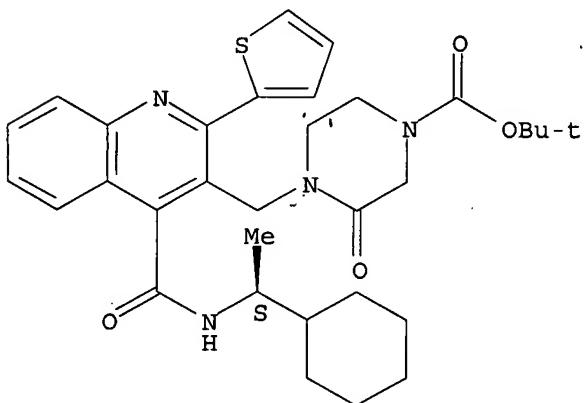
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of quinoline derivs. as NK-2 and NK-3 receptor antagonists for treating respiratory diseases)

RN 737804-44-3 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-2-(2-thienyl)-3-quinolinyl]methyl]-3-oxo-, 1,1-dimethylethyl ester
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:814124 CAPLUS

DN 137:337789

TI Preparation of 3-(piperazinylalkyl)-4-quinolinecarboxamide derivatives as NK-3 and NK-2 receptor antagonists for treatment of respiratory diseases and CNS disorders

IN Farina, Carlo; Gagliardi, Stefania; Giardina, Giuseppe Arnaldo Maria; Martinelli, Marisa

PA Glaxosmithkline S.P.A., Italy

SO PCT Int. Appl., 69 pp.

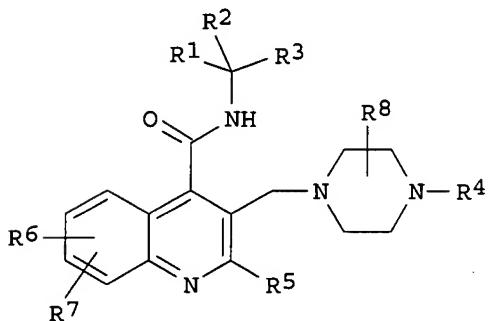
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002083664	A1	20021024	WO 2002-EP4070	20020411
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1385839	A1	20040204	EP 2002-761911	20020411
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004525184	T2	20040819	JP 2002-581419	20020411
	US 2004180902	A1	20040916	US 2004-474557	20040426
PRAI	GB 2001-9123	A	20010411		
	GB 2002-5649	A	20020311		
	WO 2002-EP4070	W	20020411		
OS	MARPAT	137:337789			
GI					



AB 3-Substituted quinoline-4-carboxamide derivs. [I; wherein R1 = H, alkyl; R2 = aryl, cycloalkyl, heteroaryl; R3 = H, alkyl, wherein the alkyl group may be optionally substituted by one or more fluorine atoms; R4 = H, hydroxyalkyl, dihydroxyalkyl, hydroxyalkoxyalkyl; R5 = branched or linear

alkyl, cycloalkyl, cycloalkylalkyl, aryl, single or fused ring aromatic heterocyclic group; R6 = H, alkyl, alkenyl, aryl, alkoxy, hydroxy, halo, nitro, cyano, carboxy, carboxamido, sulfonamido, trifluoromethyl, amino, mono- or di-alkylamino; R7 = H, halo; R8 = H, O] were prepared. For example, 3-[4-(2-hydroxyethyl)-3-oxopiperazin-1-ylmethyl]-2-thiophen-2-ylquinoline-4-carboxylic acid ((S)-1-cyclohexylethyl)amide was prepared by a multistep procedure. The prepared compds. were useful as nk-2 and nk-3 receptor antagonists.

IT 473298-89-4P

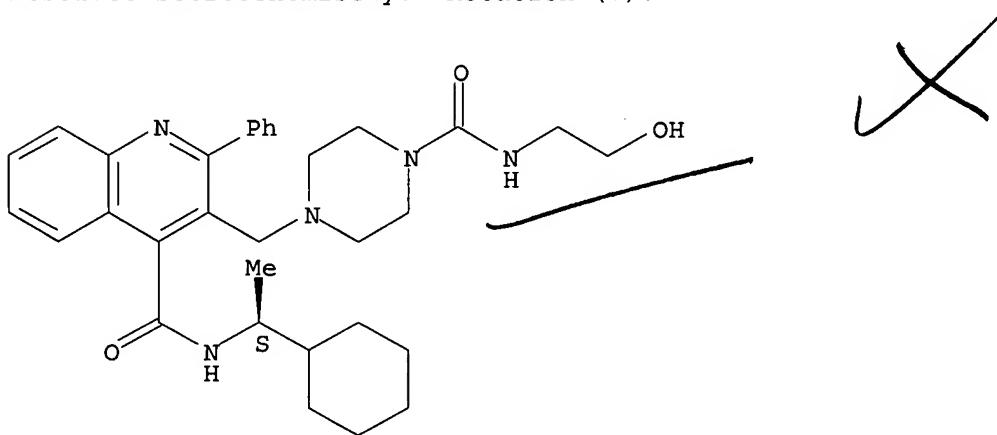
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of piperazinylalkyl quinolinecarboxamides as NK-3 and NK-2 antagonists for treatment of respiratory diseases and CNS disorders)

RN 473298-89-4 CAPLUS

CN 4-Quinoliniccarboxamide, N-[(1S)-1-cyclohexylethyl]-3-[[4-[[[(2-hydroxyethyl)amino]carbonyl]-1-piperazinyl]methyl]-2-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 425622-17-9P 473552-94-2P 473553-02-5P

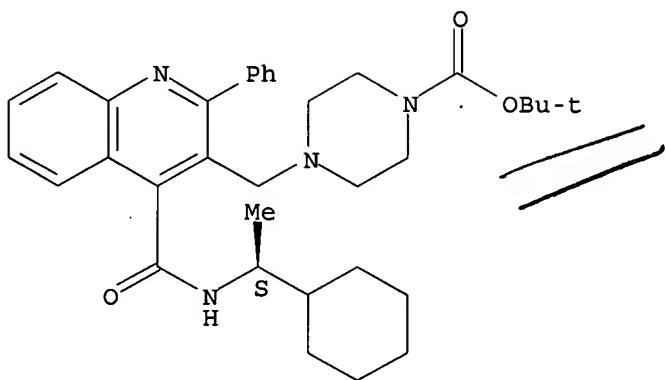
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of piperazinylalkyl quinolinecarboxamides as NK-3 and NK-2 antagonists for treatment of respiratory diseases and CNS disorders)

RN 425622-17-9 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

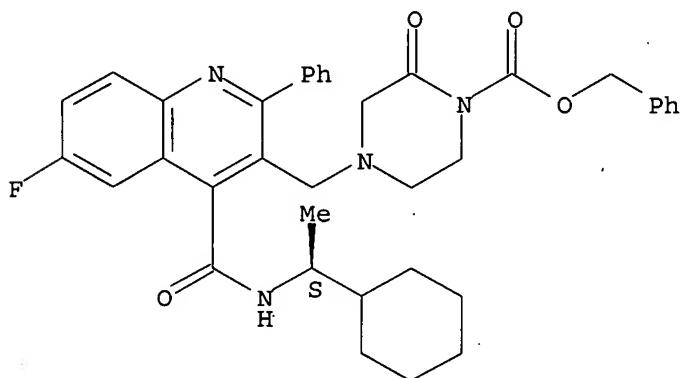
Absolute stereochemistry.



RN 473552-94-2 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl] -6-fluoro-2-phenyl-3-quinoliny]methyl]-2-oxo-, phenylmethyl ester (9CI) (CA INDEX NAME)

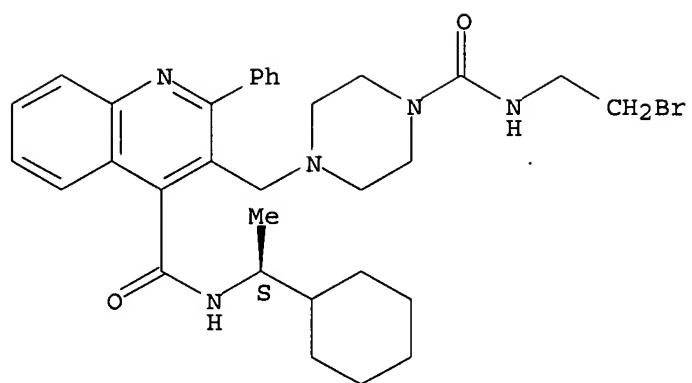
Absolute stereochemistry.



RN 473553-02-5 CAPLUS

CN 4-Quinolinecarboxamide, 3-[[4-[(2-bromoethyl)amino]carbonyl]-1-piperazinyl]methyl]-N-[(1S)-1-cyclohexylethyl]-2-phenyl- (9CI) (CA INDEX NAME)

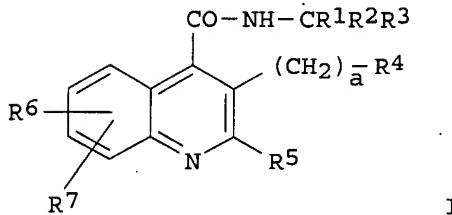
Absolute stereochemistry.



RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:814123 CAPLUS
 DN 137:310827
 TI Preparation of quinoline-4-carboxamide derivatives as NK3 and NK2 receptor antagonists
 IN Farina, Carlo; Gagliardi, Stefania; Giardina, Giuseppe Arnaldo Maria; Martinelli, Marisa
 PA Glaxosmithkline S.P.A., Italy
 SO PCT Int. Appl., 78 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002083663	A1	20021024	WO 2002-EP4066	20020411
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1377567	A1	20040107	EP 2002-735247	20020411
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004525183	T2	20040819	JP 2002-581418	20020411
	US 2004152726	A1	20040805	US 2004-474542	20040315
PRAI	GB 2001-9123	A	20010411		
	GB 2002-5649	A	20020311		
	WO 2002-EP4066	W	20020411		
OS	MARPAT 137:310827				
GI					



AB Disclosed are quinoline-4-carboxamide derivs. (shown as I; e.g. 6-fluoro-3-[3-oxo-4-(2-piperidin-1-ylethyl)piperazin-1-ylmethyl]-2-phenylquinoline-4-carboxylic acid ((S)-1-cyclohexylethyl)amide), far more stable from a metabolic point of view than the known peptidic NK3 receptor antagonists, as detailed in the specification or a pharmaceutically acceptable salt or solvate thereof, a process for preparing such compds., a pharmaceutical composition comprising such compds. and the use of such compds. in medicine. In I: R1 is H or alkyl; R2 is aryl or cycloalkyl or heteroaryl; R3 is H or alkyl, wherein the group may be optionally

substituted by ≥ 1 F atoms; R4 is NR8R9; R8 is H, alkyl or R11R12 and R9 is H, alkyl or R13R14; or R8 and R9 together with the N atom to which they are attached form a heterocyclic ring comprising 4-8 ring members, said ring members optionally including in addition to said N atom ≥ 1 further heteroatoms selected from N, O or S; and further detailed in the specification. Binding assays allowing the determination of the

concentration of the individual compound required to reduce by 50% the [125 I]-[Me-Phe7]-NKB and [3 H]-Senktide specific binding to NK3 receptor in equilibrium conditions (IC50) show the most potent I have IC50 values of 0.1-1000 nM. Binding assays allowing the determination of the concentration of the

individual compound required to reduce by 50% the [125 I]-NKA and [3 H]-NKA specific binding to NK2 receptor in equilibrium conditions (IC50) show the most potent I to have IC50 values of 0.5-1000 nM, such as 1-1000 nM. Example preps. of about 16 intermediates and 35 I are included.

IT 473298-58-7P, 3-[(4-Ethylcarbamoylpiperazin-1-yl)methyl]-2-phenylquinoline-4-carboxylic acid ((S)-1-cyclohexylethyl)amide

473298-59-8P, 3-[(4-Isopropylcarbamoylpiperazin-1-yl)methyl]-2-phenylquinoline-4-carboxylic acid ((S)-1-cyclohexylethyl)amide

473298-89-4P, N-((S)-1-Cyclohexylethyl)-3-((4-((2-hydroxyethyl)amino)carbonyl)-1-piperazinyl)methyl)-2-phenylquinoline-4-carboxamide

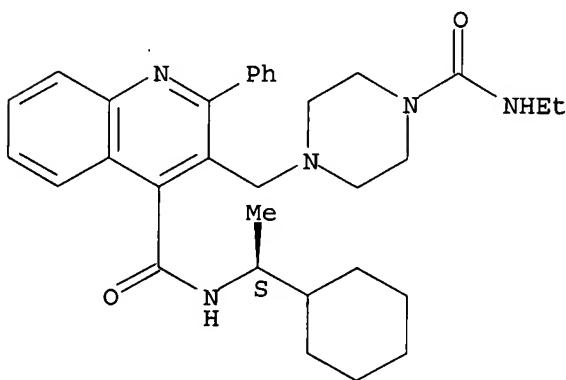
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of quinoline-4-carboxamide derivs. as NK3 and NK2 receptor antagonists)

RN 473298-58-7 CAPLUS

CN 4-Quinolinecarboxamide, N-[(1S)-1-cyclohexylethyl]-3-[[4-[(ethylamino)carbonyl]-1-piperazinyl]methyl]-2-phenyl- (9CI) (CA INDEX NAME)

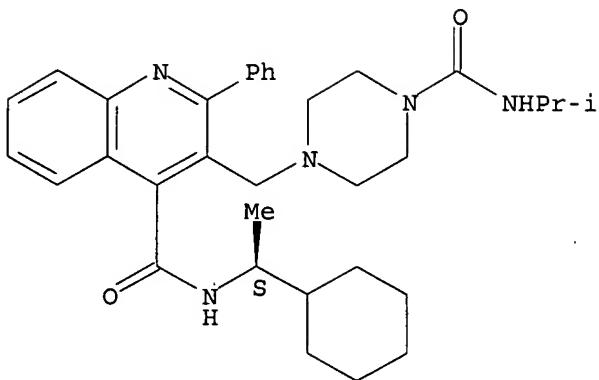
Absolute stereochemistry. Rotation (+).



RN 473298-59-8 CAPLUS

CN 4-Quinolinecarboxamide, N-[(1S)-1-cyclohexylethyl]-3-[[4-[(1-methylethyl)amino]carbonyl]-1-piperazinyl]methyl]-2-phenyl- (9CI) (CA INDEX NAME)

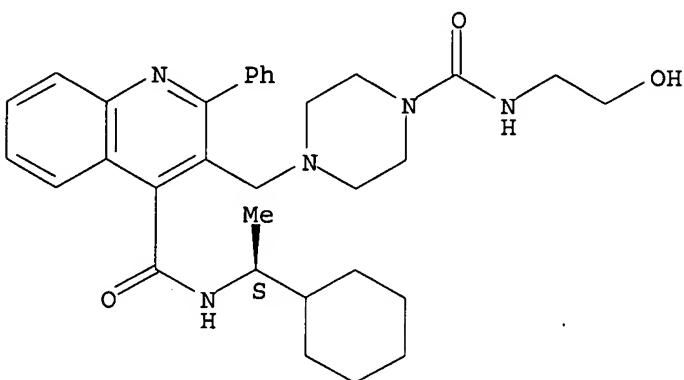
Absolute stereochemistry. Rotation (+).



RN 473298-89-4 CAPLUS

CN 4-Quinolinecarboxamide, N-[(1S)-1-cyclohexylethyl]-3-[[4-[(2-hydroxyethyl)amino]carbonyl]-1-piperazinyl]methyl]-2-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 425622-17-9P, 4-[[4-((S)-1-Cyclohexylethylcarbamoyl)-2-

phenylquinolin-3-yl]methyl]piperazine-1-carboxylic acid tert-butyl ester
473298-41-8P, 4-[[4-((S)-1-Cyclohexylethylcarbamoyl)-6-fluoro-2-phenylquinolin-3-yl]methyl]-3-oxopiperazine-1-carboxylic acid tert-butyl ester

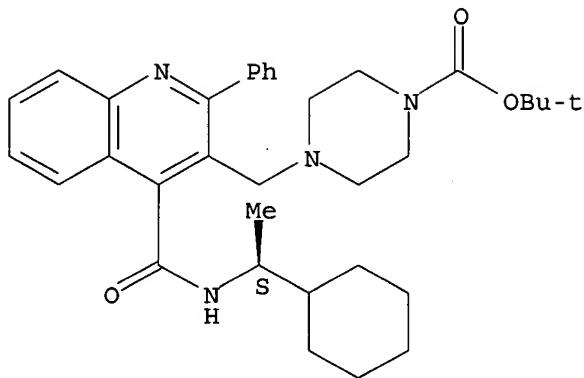
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of quinoline-4-carboxamide derivs. as NK3 and NK2 receptor antagonists)

RN 425622-17-9 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

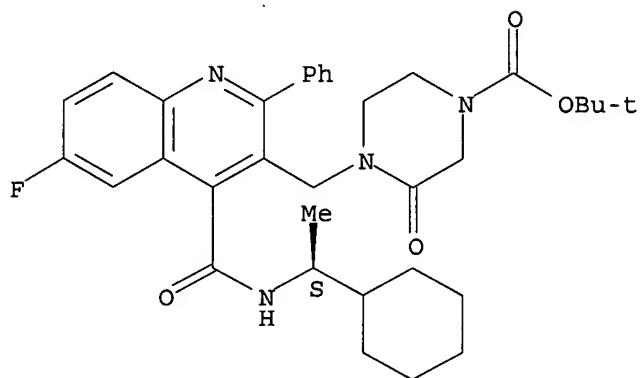
Absolute stereochemistry.



RN 473298-41-8 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-6-fluoro-2-phenyl-3-quinoliny]methyl]-3-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 7

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

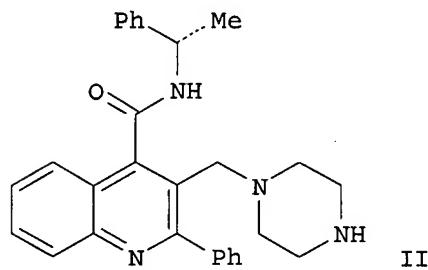
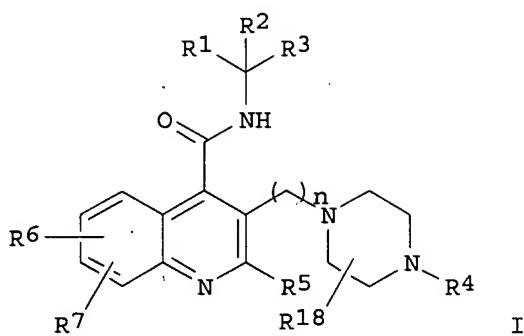
L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:428893 CAPLUS
 DN 137:20387

TI Preparation of 3-(piperazinylalkyl)-4-quinolinecarboxamides as NK-3 and NK-2 antagonists for treatment of respiratory diseases and CNS disorders
 IN Farina, Carlo; Gagliardi, Stefania; Giardina, Giuseppe; Grugni, Mario; Nadler, Guy Marguerite Marie Gerard; Martinelli, Marisa
 PA Glaxosmithkline S.P.A., Italy; Laboratoire Glaxosmithkline S.A.S.
 SO PCT Int. Appl., 119 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002044165	A1	20020606	WO 2001-EP13833	20011126
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002026356	A5	20020611	AU 2002-26356	20011126
	EP 1351953	A1	20031015	EP 2001-995670	20011126
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004517082	T2	20040610	JP 2002-546535	20011126
	US 2004097518 <i>SAW</i>	A1	20040520	US 2003-432925	20031124
PRAI	GB 2000-28965	A	20001128		
	GB 2001-9118	A	20010411		
	WO 2001-EP13833	W	20011126		
OS	MARPAT	137:20387			
GI					



AB Title compds. I [wherein R1 = H or alkyl; R2 = (un)substituted (hetero)aryl or cycloalkyl; R3 = H, alkyl, or cycloalkyl(alkyl) (un)substituted by 1 or more fluorines; R4 = H or R8R9; R5 = branched or linear alkyl, cycloalkyl(alkyl), aryl, or single or fused-ring aromatic (un)substituted heterocyclic group; R6 = H, or 1-3 of alkyl, alkenyl, aryl, alkoxy, OH, halo, NO₂, cyano, CO₂H, alkylcarboxy(alkyl), haloalkyl, NH₂, or (di)(alkyl)amino; or R6 = a bridging alkyl or dioxyalkylene; R7 = H or halo; R8 = (un)substituted alkyl or alkenyl; R9 = S(O₂)R10, S(O₂)OR₁₀, ONO, CO₂R₁₀, CONR₁₁R₁₂, or CN; R10 = H, (cyclo)alkyl, or aryl; R₁₁ and R₁₂ = independently H or alkyl; R18 = H or up to 3 oxo groups; any of R₂, R₅, R₈, R₁₀, R₁₁, or R₁₂ may be (un)substituted 1 or more times by halo, OH, NH₂, cyano, NO₂, CO₂H, or oxo; n = 1-6; with 26 compds. excluded; and their pharmaceutically acceptable salts or hydrates] were prepared. I are a novel class of potent non-peptide neurokinin-3 (NK-3) antagonists, some of which fall within the generic scope of WO 00/31037. I are far more stable metabolically and show improved oral bioavailability compared to the known peptidic NK-3 receptor antagonists (no data). In addition, I have good NK-2 antagonist activity and are considered to be of potential use in the prevention and treatment of a wide variety of clin. conditions which are characterized by over-stimulation of tachykinin receptors, in particular NK-3 and NK-2. Forty-eight specific (S)-isomeric compds. I were prepared. For instance, 4-carboxy-3-methyl-2-phenylquinoline was subjected to the sequence of (1) Me esterification; (2) α -bromination; (3) amination of the bromide with piperazine-1-carboxylic acid tert-Bu ester; (4) ester hydrolysis (95%); and (5) amidation with (S)-1-phenylethylamine to give the title compound II. In binding assays using human NK-2 receptors and guinea pig and human NK-3 receptors, the most potent I exhibited IC₅₀ values ranging from 0.5 nM to 1000 nM and from 0.1 nM to 1000 nM, resp.

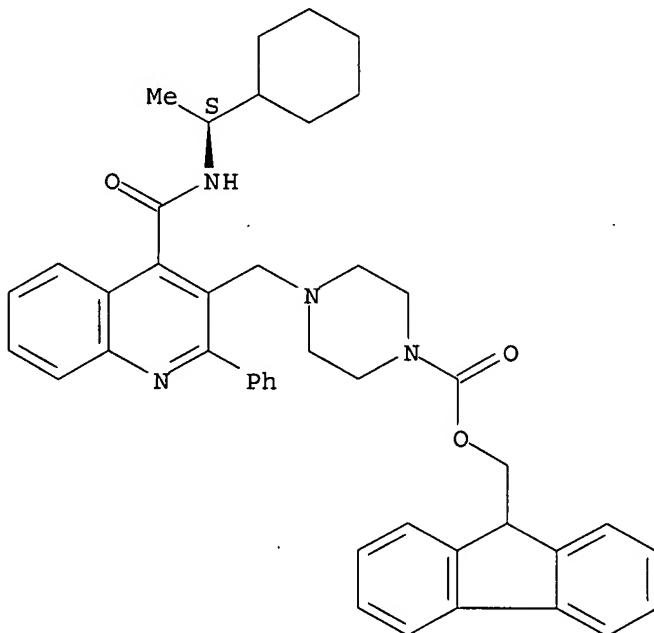
IT 270574-13-5P 270574-14-6P 425622-12-4P
 433962-70-0P 433962-95-9P 433962-99-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of piperazinylalkyl quinolinecarboxamides as NK-3 and NK-2 antagonists for treatment of respiratory diseases and CNS disorders)

RN 270574-13-5 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-, 9H-fluoren-9-ylmethyl ester (9CI) (CA INDEX NAME)

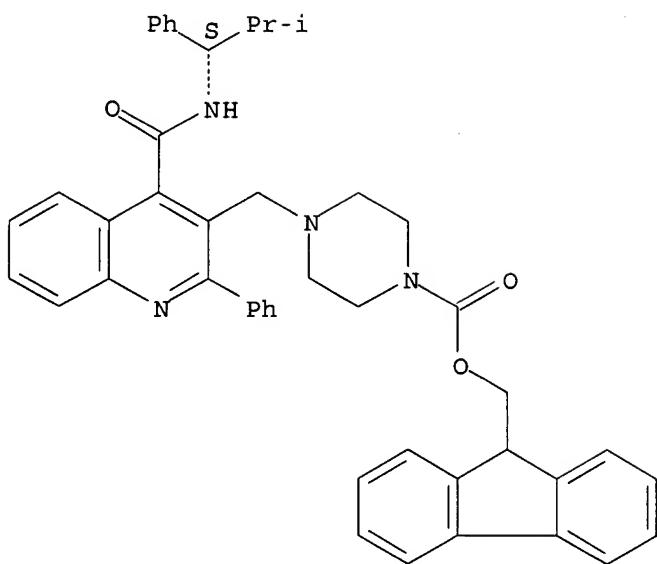
Absolute stereochemistry.



RN 270574-14-6 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-[[[(1S)-2-methyl-1-phenylpropyl]amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-, 9H-fluoren-9-ylmethyl ester (9CI) (CA INDEX NAME)

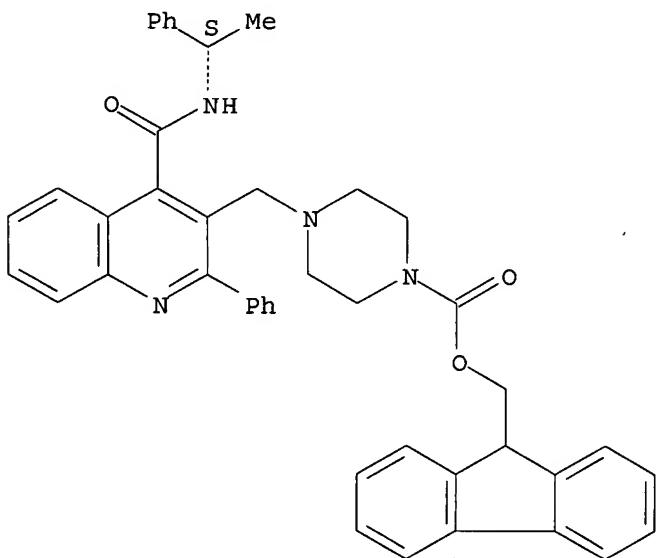
Absolute stereochemistry.



RN 425622-12-4 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[2-phenyl-4-[[[(1S)-1-phenylethyl]amino]carbonyl]-3-quinolinyl]methyl]-, 9H-fluoren-9-ylmethyl ester (9CI) (CA INDEX NAME)

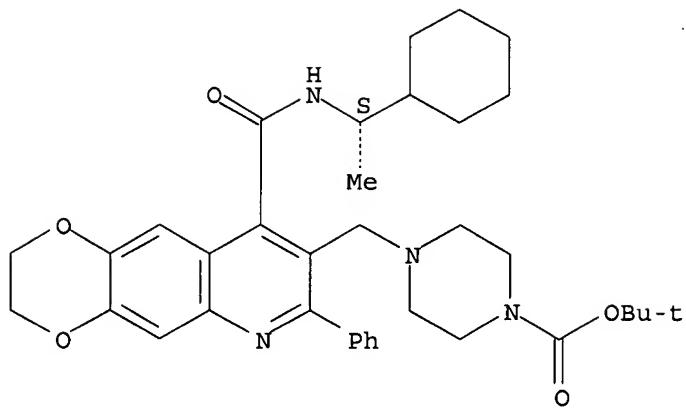
Absolute stereochemistry.



RN 433962-70-0 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[9-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-2,3-dihydro-7-phenyl-1,4-dioxino[2,3-g]quinolin-8-yl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

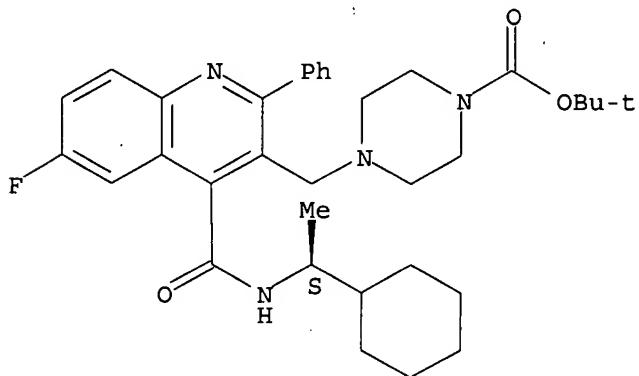
Absolute stereochemistry.



RN 433962-95-9 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-6-fluoro-2-phenyl-3-quinoliny]methyl]-, 1,1-dimethylethyl ester (9CI)
(CA INDEX NAME)

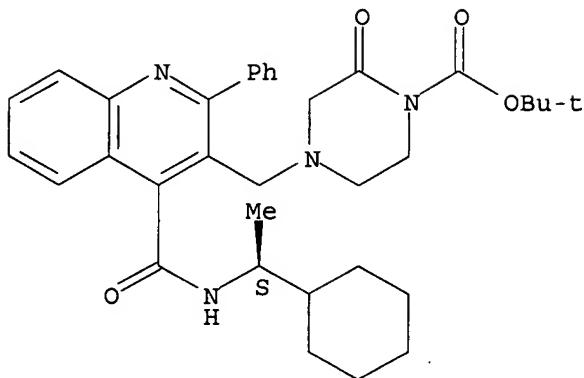
Absolute stereochemistry.



RN 433962-99-3 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-2-phenyl-3-quinoliny]methyl]-2-oxo-, 1,1-dimethylethyl ester (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



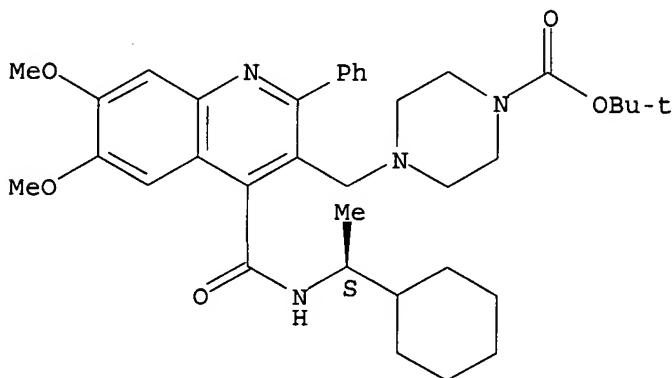
IT 433963-10-1

RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant; preparation of piperazinylalkyl quinolinecarboxamides as NK-3 and
NK-2 antagonists for treatment of respiratory diseases and CNS
disorders)

RN 433963-10-1 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl] -6,7-dimethoxy-2-phenyl-3-quinolinyl]methyl]-, 1,1-dimethylethyl ester
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

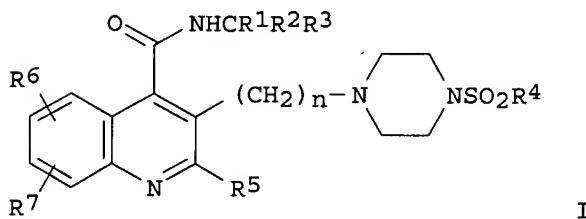


RE.CNT 2

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:368457 CAPLUS
 DN 136:369740
 TI Preparation of piperazinylalkylquinoline-4-carboxamides as NK-3 and NK-2 receptor antagonists
 IN Farina, Carlo; Giardina, Giuseppe; Grugni, Mario; Nadler, Guy Marguerite Marie Gerard
 PA Glaxosmithkline S.p.A., Italy; Laboratoire Glaxosmithkline S.A.S.
 SO PCT Int. Appl., 46 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002038548	A1	20020516	WO 2001-EP13141	20011112
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002015043	A5	20020521	AU 2002-15043	20011112
EP 1334088	A1	20030813	EP 2001-983584	20011112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004513165	T2	20040430	JP 2002-541084	20011112
US 2004077658	A1	20040422	US 2003-416600	20031023
PRAI GB 2000-27701	A	20001113		
WO 2001-EP13141	W	20011112		
OS MARPAT 136:369740				
GI				



AB Title compds. [I; R1 = H, alkyl; R2 = aryl, cycloalkyl, heteroaryl; R3 = H, alkyl, optionally substituted by ≥ 1 F; R4 = R8R9; R8 = bond, alkyl, aryl; R9 = H, COO R10, NR11R12; R10 = H, alkyl; R11, R12 = H, alkyl; R5 = alkyl, cycloalkyl, cycloalkylalkyl, aryl, single or fused ring heteroaryl; R6 = H, alkyl, alkenyl, aryl, alkoxy, OH, halo, NO2, cyano, carboxy, carboxamido, sulfonamido, alkoxy carbonyl, CF3, acyloxy, amino; R7 = H, halo; n = 1-6; any of R2, R5, R8, R10, R11, R12 may be substituted by halo, hydroxy, amino, cyano, NO2, CO2H, oxo], were prepared. Thus, 2-phenyl-3-piperazin-1-ylmethylquinoline-4-carboxylic acid ((S)-2-methyl-1-phenylpropyl)amide (preparation given) in MeCN was treated with

EtO₂CCH₂CH₂SO₂Cl and diisopropylethylamine; the mixture was stirred 15 h at room temperature and for 3 h at 50° to give 3-[4-[(S)-2-methyl-1-phenylpropylcarbamoyl]-2-phenylquinolin-3-ylmethyl]piperazine-1-sulfonyl]propionic acid Me ester. The most potent I bind to NK-2 receptors with IC₅₀ = 0.5-1000 nM.

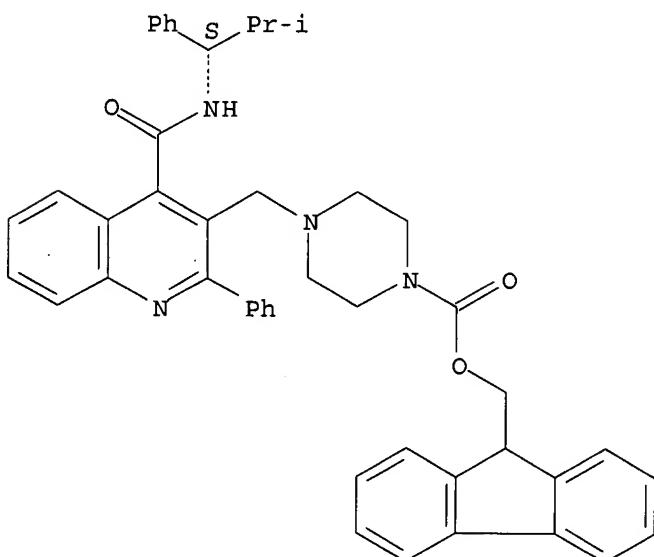
IT 270574-14-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of)

RN 270574-14-6 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-[[[(1S)-2-methyl-1-phenylpropyl]amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-, 9H-fluoren-9-ylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



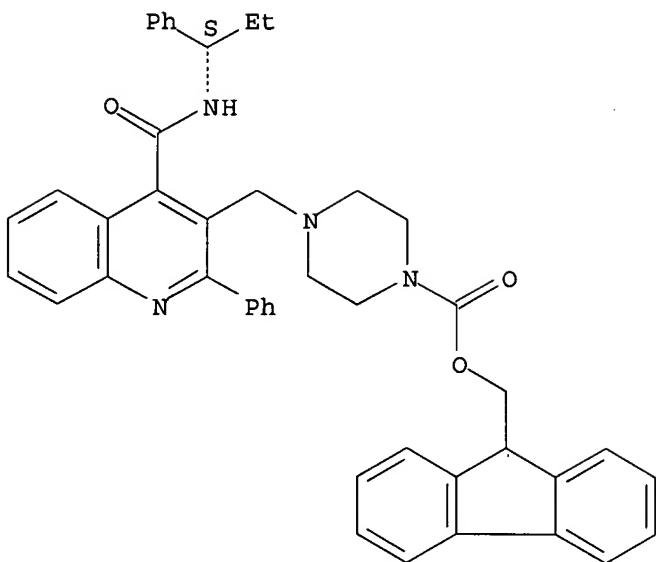
IT 270574-12-4P 270574-13-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of piperazinylalkylquinoline-4-carboxamides as NK-3 and NK-2 receptor antagonists)

RN 270574-12-4 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[2-phenyl-4-[[[(1S)-1-phenylpropyl]amino]carbonyl]-3-quinolinyl]methyl]-, 9H-fluoren-9-ylmethyl ester (9CI) (CA INDEX NAME)

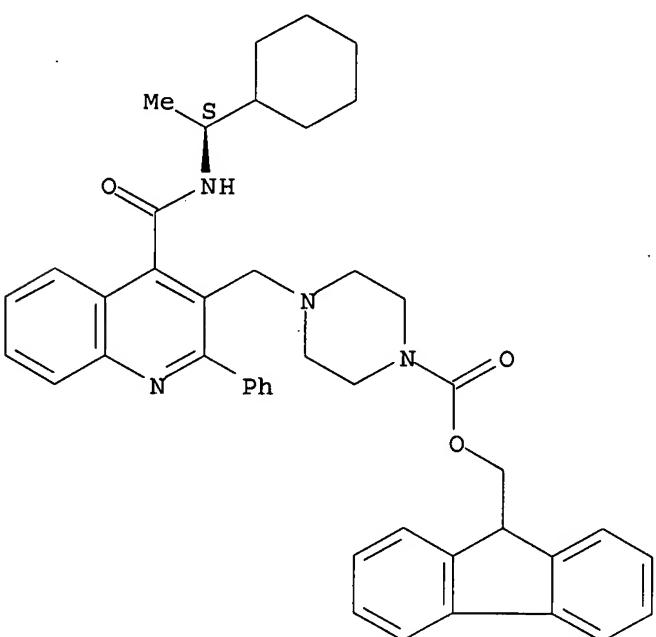
Absolute stereochemistry.



RN 270574-13-5 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-, 9H-fluoren-9-ylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 1

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:368456 CAPLUS
 DN 136:386030
 TI Quinoline derivatives as NK-3 and NK-2 antagonists
 IN Farina, Carlo; Gagliardi, Stefania; Giardina, Giuseppe; Grugni, Mario;
 Martinelli, Marisa; Nadler, Guy Marguerite Marie Gerard
 PA Glaxosmithkline S.p.A., Italy; Laboratoire Glaxosmithkline
 SO PCT Int. Appl., 71 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002038547	A1	20020516	WO 2001-EP13139	20011112
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002020702	A5	20020521	AU 2002-20702	20011112
	EP 1334089	A1	20030813	EP 2001-993602	20011112
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004517062	T2	20040610	JP 2002-541083	20011112
	US 2004082589	A1	20040429	US 2003-416596	20031023
PRAI	GB 2000-27696	A	20001113		
	GB 2001-9119	A	20010411		
	WO 2001-EP13139	W	20011112		
OS	MARPAT	136:386030			
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I and their pharmaceutically acceptable salts or hydrates are claimed [wherein: R1 = H or alkyl; R2 = aryl, cycloalkyl, or heteroaryl; R3 = H or C1-3 alkyl, (un)substituted by 1 or more fluorines; R4 = H, R8NR9R10, R11R13, or R11R12R13; R5 = branched or linear alkyl, cycloalkyl(alkyl), aryl(alkyl), or single or fused-ring aromatic heterocyclic group; R6 = H, or 1-3 of alkyl, alkenyl, aryl, alkoxy, OH, halo, NO₂, cyano, CO₂H, carboxamido, sulfonamido, alkoxy carbonyl, CF₃, acyloxy, (di)(alkyl)amino; R7 = H, halo; n = 1-6; R8 = bond or alkylene; R9, R10 = H, alkyl, cycloalkyl(alkyl), aryl(alkyl); or NR9R10 = (un)saturated (fluoro)heterocyclyl; R11 = alkyl, alkenyl, (hetero)aryl, (un)saturated carbocyclyl with ≥ 1 N/O/S atom(s), cycloalkyl, etc.; R12 = (un)substituted alkyl, alkoxy; R13 = H, CO₂R14; R14 = H, alkyl; any of R2, R5, R8, R9, R10, R11, R12, and R14 may be substituted by halo, OH, amino, cyano, NO₂, CO₂H, or oxo; with specific exclusion of 14 compds.]. Also claimed is a process for preparing the compds., pharmaceutical compns. comprising them, and their use in medicine. I are a novel class of potent non-peptide NK-3 antagonists, some of which fall within the generic scope of WO 00/31037. I are also far more stable from a metabolic point of view than the known peptidic NK-3 receptor antagonists (no data), and are of

potential therapeutic utility. I also have good NK-2 antagonist activity, and are therefore considered to be of potential use in the prevention and treatment of a wide variety of clin. conditions which are characterized by overstimulation of tachykinin receptors, in particular NK-3 and NK-2. I also show improved oral bioavailability (no data). Approx. 25 specific (S)-isomeric compds. I were prepared, and their general stereochem. forms are claimed. For instance, 3-methyl-2-phenylquinoline-4-carboxylic acid was subjected to a sequence of: (1) Me esterification; (2) α -bromination; (3) amination of the bromide with Fmoc-piperazine; (4) ester hydrolysis; (5) amidation with (S)-1-phenylpropylamine; (6) deprotection at Fmoc; (7) coupling with N-BOC- β -alanine; and (8) deprotection at BOC; to give title compound II, isolated as the di-HCl salt. In binding assays using human and guinea pig NK-3 receptors, and human NK-2 receptors, the most potent I had IC₅₀ values in the range of 0.1-1000 nM for NK-3, and 0.5-1000 nM for NK-2. Antagonist behavior of I at NK-3 receptors was evidenced by reversal of the effects of senktide and NKB, and antagonist activity at NK-2 receptors was indicated by reversal of the effects of NKA.

IT 425621-77-8P, 3-[4-[(4-[(S)-1-Cyclohexylethyl)carbamoyl]-2-phenylquinolin-3-yl)methyl]piperazin-1-yl]-3-oxo-2-phenylpropionic acid ethyl ester

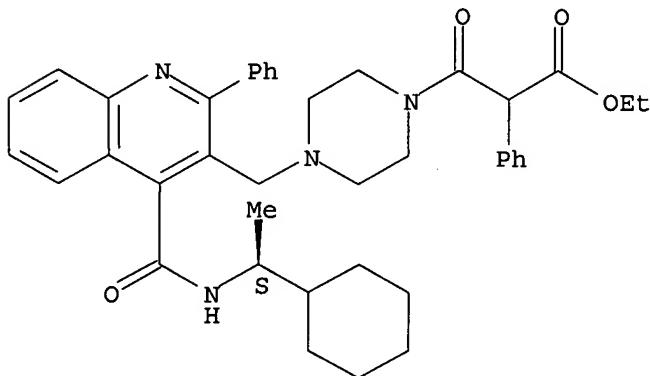
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(drug candidate; preparation of quinoline derivs. as NK-3 and NK-2 antagonists)

RN 425621-77-8 CAPLUS

CN 1-Piperazinepropanoic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]2-phenyl-3-quinolinyl]methyl]-β-oxo-α-phenyl-, ethyl ester
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 425621-62-1P, (-)-*(S*)-*N*-(1-Phenylpropyl)-3-[[4-(3-aminopropionyl)piperazin-1-yl]methyl]-2-phenylquinoline-4-carboxamide dihydrochloride 425621-63-2P, 3-[1-[4-[[2-Phenyl-4-[(*(S*)-1-phenylethyl]carbamoyl]quinolin-3-yl]methyl]piperazin-1-yl]methanoyl]pyrazine-2-carboxylic acid 425621-64-3P, 4-[1-[4-[[2-Phenyl-4-[(*(S*)-1-phenylethyl]carbamoyl]quinolin-3-yl]methyl]piperazin-1-yl]methanoyl]nicotinic acid 425621-65-4P, [2-Oxo-2-[4-[[2-phenyl-4-[(*(S*)-1-phenylethyl]carbamoyl]quinolin-3-yl]methyl]piperazin-1-yl]ethoxy]acetic acid 425621-66-5P, [1-[2-Oxo-2-[4-[[2-phenyl-4-[(*(S*)-1-phenylethyl]carbamoyl]quinolin-3-yl]methyl]piperazin-1-yl]ethyl]cyclopentyl]acetic acid

425621-67-6P, 3,3-Dimethyl-5-oxo-5-[4-[(2-phenyl-4-[(*S*)-1-phenylethyl)carbamoyl]quinolin-3-yl]methyl]piperazin-1-yl]pentanoic acid
425621-68-7P **425621-69-8P** **425621-70-1P**,
(E)-4-Oxo-4-[4-[(2-phenyl-4-[(*S*)-1-phenylethyl)carbamoyl]quinolin-3-yl]methyl]piperazin-1-yl]but-2-enoic acid **425621-71-2P**,
3-[4-[(4-[(*S*)-1-Cyclohexylethyl)carbamoyl]-2-phenylquinolin-3-yl]methyl]piperazin-1-yl]-3-oxopropionic acid **425621-72-3P**,
5-[4-[(4-[(*S*)-1-Cyclohexylethyl)carbamoyl]-2-phenylquinolin-3-yl]methyl]piperazin-1-yl]-5-oxopentanoic acid **425621-73-4P**,
3-[1-[4-[(4-[(*S*)-1-Cyclohexylethyl)carbamoyl]-2-phenylquinolin-3-yl]methyl]piperazin-1-yl]methanoyl]pyrazine-2-carboxylic acid
425621-74-5P, 3-[1-[4-[(4-[(*S*)-1-Cyclohexylethyl)carbamoyl]-2-phenylquinolin-3-yl]methyl]piperazin-1-yl]methanoyl]benzoic acid
425621-75-6P, 5-[1-[4-[(4-[(*S*)-1-Cyclohexylethyl)carbamoyl]-2-phenylquinolin-3-yl]methyl]piperazin-1-yl]methanoyl]nicotinic acid
425621-76-7P, 4-[1-[4-[(4-[(*S*)-1-Cyclohexylethyl)carbamoyl]-2-phenylquinolin-3-yl]methyl]piperazin-1-yl]methanoyl]benzoic acid
425621-78-9P, 3-[4-[(4-[(*S*)-1-Cyclohexylethyl)carbamoyl]-2-phenylquinolin-3-yl]methyl]piperazin-1-yl]-3-oxo-2-phenylpropionic acid
sodium salt **425621-79-0P**, 3-[(4-Formylpiperazin-1-yl)methyl]-2-phenylquinoline-4-carboxylic acid (*S*)-1-cyclohexylethylamide
425621-80-3P, (*S*)-N-(1-Cyclohexylethyl)-2-phenyl-3-[(4-phenylcarbamoyl)piperazin-1-yl)methyl]quinoline-4-carboxamide
425621-81-4P, (*S*)-N-(1-Cyclohexylethyl)-2-phenyl-3-[(4-carbamoylpiperazin-1-yl)methyl]quinoline-4-carboxamide
425621-82-5P, 3-[(4-(3-Aminopropanoyl)piperazin-1-yl)methyl]-2-phenylquinoline-4-carboxylic acid (*S*)-1-cyclohexylethylamide
425621-83-6P, 3-[(4-[3-(Ethylamino)propanoyl)piperazin-1-yl)methyl]-2-phenylquinoline-4-carboxylic acid (*S*)-1-cyclohexylethylamide
425621-84-7P, 2-Phenyl-3-[(4-[3-(pyrrolidin-1-yl)propanoyl)piperazin-1-yl)methyl]quinoline-4-carboxylic acid
(*S*)-1-cyclohexylethylamide **425621-85-8P**, 2-Phenyl-3-[(4-[3-(piperidin-1-yl)propanoyl)piperazin-1-yl)methyl]quinoline-4-carboxylic acid (*S*)-1-cyclohexylethylamide **425621-86-9P**,
N-(1-Phenylpropyl)-3-[(4-(3-aminopropionyl)piperazin-1-yl)methyl]-2-phenylquinoline-4-carboxamide **425621-87-0P**, 3-[1-[4-[(2-Phenyl-4-[(1-phenylethyl)carbamoyl]quinolin-3-yl)methyl]piperazin-1-yl]methanoyl]pyrazine-2-carboxylic acid **425621-88-1P**,
4-[1-[4-[(2-Phenyl-4-[(1-phenylethyl)carbamoyl]quinolin-3-yl)methyl]piperazin-1-yl]methanoyl]nicotinic acid **425621-89-2P**,
[2-Oxo-2-[(4-[(1-phenylethyl)carbamoyl]quinolin-3-yl)methyl]piperazin-1-yl]methanoyl]ethoxy]acetic acid **425621-90-5P**,
[1-[2-Oxo-2-[(4-[(1-phenylethyl)carbamoyl]quinolin-3-yl)methyl]piperazin-1-yl]ethyl]cyclopentyl]acetic acid
425621-91-6P, 3,3-Dimethyl-5-oxo-5-[4-[(2-phenyl-4-[(1-phenylethyl)carbamoyl]quinolin-3-yl)methyl]piperazin-1-yl]pentanoic acid
425621-92-7P, 2-[1-[4-[(2-Phenyl-4-[(1-phenylethyl)carbamoyl]quinolin-3-yl)methyl]piperazin-1-yl]methanoyl]cyclopropanecarboxylic acid **425621-93-8P**,
2-[1-[4-[(2-Phenyl-4-[(1-phenylethyl)carbamoyl]quinolin-3-yl)methyl]piperazin-1-yl]methanoyl]cyclohexanecarboxylic acid
425621-94-9P, 4-Oxo-4-[4-[(2-phenyl-4-[(1-phenylethyl)carbamoyl]quinolin-3-yl)methyl]piperazin-1-yl]but-2-enoic acid
425621-95-0P, 3-[4-[(4-[(1-Cyclohexylethyl)carbamoyl]-2-phenylquinolin-3-yl)methyl]piperazin-1-yl]-3-oxopropionic acid
425621-96-1P, 5-[4-[(4-[(1-Cyclohexylethyl)carbamoyl]-2-phenylquinolin-3-yl)methyl]piperazin-1-yl]-5-oxopentanoic acid
425621-97-2P, 3-[1-[4-[(4-[(1-Cyclohexylethyl)carbamoyl]-2-phenylquinolin-3-yl)methyl]piperazin-1-yl]methanoyl]pyrazine-2-carboxylic acid **425621-98-3P**, 3-[1-[4-[(4-[(1-Cyclohexylethyl)carbamoyl]-2-

phenylquinolin-3-yl]methyl]piperazin-1-yl]methanoyl]benzoic acid
 425621-99-4P, 5-[1-[4-[(4-[(1-Cyclohexylethyl)carbamoyl]-2-phenylquinolin-3-yl)methyl]piperazin-1-yl]methanoyl]nicotinic acid
 425622-00-0P, 4-[1-[4-[(4-[(1-Cyclohexylethyl)carbamoyl]-2-phenylquinolin-3-yl)methyl]piperazin-1-yl]methanoyl]benzoic acid
 425622-01-1P, 3-[4-[(4-[(1-Cyclohexylethyl)carbamoyl]-2-phenylquinolin-3-yl)methyl]piperazin-1-yl]3-oxo-2-phenylpropionic acid ethyl ester 425622-02-2P, 3-[4-[(4-[(1-Cyclohexylethyl)carbamoyl]-2-phenylquinolin-3-yl)methyl]piperazin-1-yl]3-oxo-2-phenylpropionic acid 425622-03-3P, 3-[(4-Formylpiperazin-1-yl)methyl]-2-phenylquinoline-4-carboxylic acid (1-cyclohexylethyl)amide
 425622-04-4P, N-(1-Cyclohexylethyl)-2-phenyl-3-[(4-(phenylcarbamoyl)piperazin-1-yl)methyl]quinoline-4-carboxamide
 425622-05-5P, N-(1-Cyclohexylethyl)-2-phenyl-3-[(4-carbamoylpiperazin-1-yl)methyl]quinoline-4-carboxamide
 425622-06-6P, 3-[(4-(3-Aminopropanoyl)piperazin-1-yl)methyl]-2-phenylquinoline-4-carboxylic acid (1-cyclohexylethyl)amide
 425622-07-7P, 3-[(4-[(3-(Ethylamino)propanoyl)piperazin-1-yl)methyl]-2-phenylquinoline-4-carboxylic acid (1-cyclohexylethyl)amide
 425622-08-8P, 2-Phenyl-3-[(4-[(3-(pyrrolidin-1-yl)propanoyl)piperazin-1-yl)methyl]quinoline-4-carboxylic acid 1-cyclohexylethylamide 425622-09-9P, 2-Phenyl-3-[(4-[(3-(piperidin-1-yl)propanoyl)piperazin-1-yl)methyl]quinoline-4-carboxylic acid (1-cyclohexylethyl)amide 425622-10-2P, 3-[1-[4-[(2-Phenyl-4-[(S)-1-phenylethyl]carbamoyl]quinolin-3-yl)methyl]piperazin-1-yl]methanoyl]isonicotinic acid

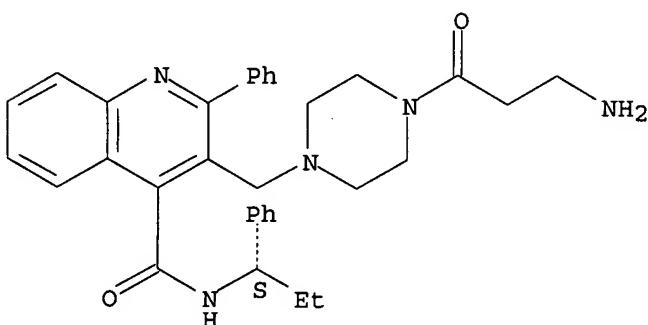
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of quinoline derivs. as NK-3 and NK-2 antagonists)

RN 425621-62-1 CAPLUS

CN 4-Quinolinecarboxamide, 3-[(4-(3-amino-1-oxopropyl)-1-piperazinyl)methyl]-2-phenyl-N-[(1S)-1-phenylpropyl]-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

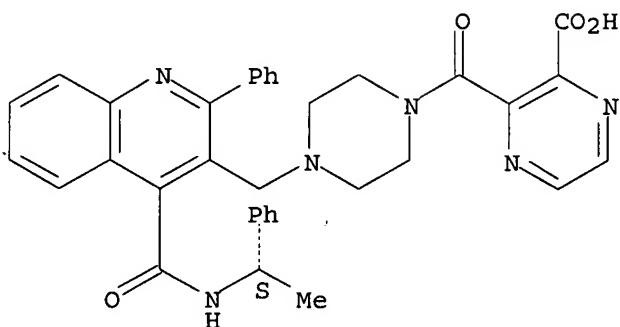


● 2 HCl

RN 425621-63-2 CAPLUS

CN Pyrazinecarboxylic acid, 3-[(4-[[2-phenyl-4-[(1S)-1-phenylethyl]amino]carbonyl]-3-quinolinyl)methyl]-1-piperazinyl]carbonyl]-(9CI) (CA INDEX NAME)

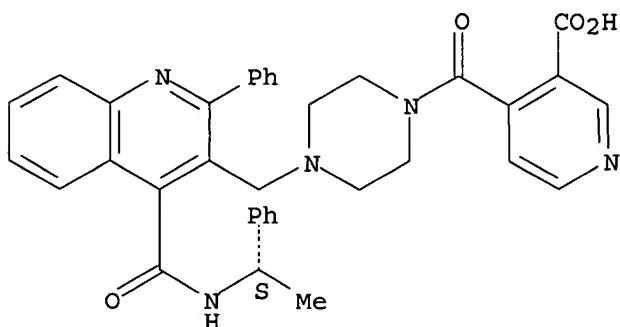
Absolute stereochemistry.



RN 425621-64-3 CAPLUS

CN 3-Pyridinecarboxylic acid, 4-[[4-[[2-phenyl-4-[[[(1S)-1-phenylethyl]amino]carbonyl]-3-quinoliny]methyl]-1-piperazinyl]carbonyl]-(9CI) (CA INDEX NAME)

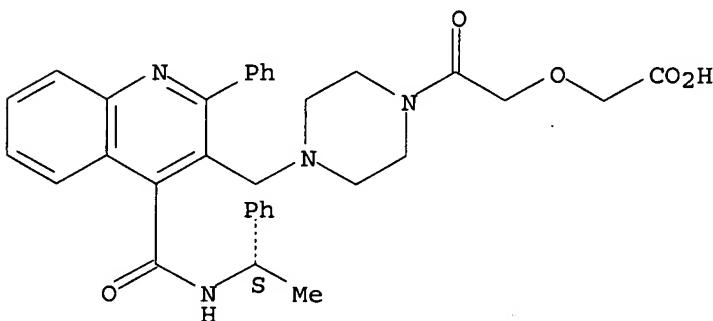
Absolute stereochemistry.



RN 425621-65-4 CAPLUS

CN Acetic acid, [2-oxo-2-[4-[[2-phenyl-4-[[[(1S)-1-phenylethyl]amino]carbonyl]-3-quinoliny]methyl]-1-piperazinyl]ethoxy]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

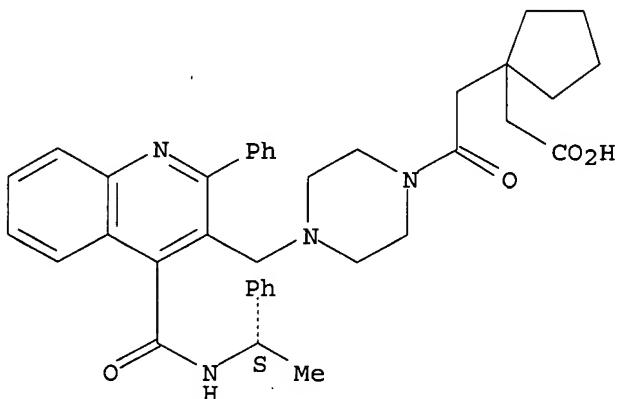


RN 425621-66-5 CAPLUS

CN Cyclopentaneacetic acid, 1-[2-oxo-2-[4-[[2-phenyl-4-[[[(1S)-1-

phenylethyl]amino]carbonyl]-3-quinoliny]methyl]-1-piperazinyl]ethyl]-
(9CI) (CA INDEX NAME)

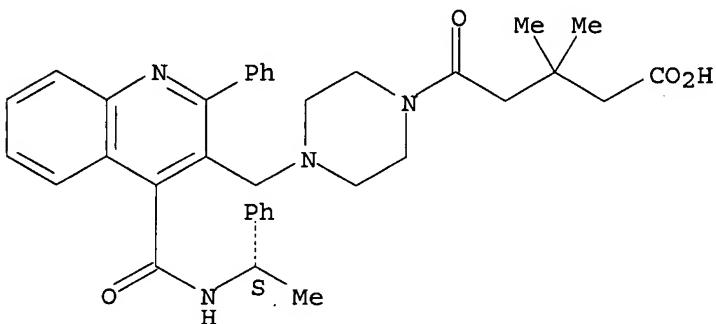
Absolute stereochemistry.



RN 425621-67-6 CAPLUS

CN 1-Piperazinepentanoic acid, β,β -dimethyl-8-oxo-4-[[2-phenyl-4-[[[(1S)-1-phenylethyl]amino]carbonyl]-3-quinoliny]methyl]- (9CI) (CA INDEX NAME)

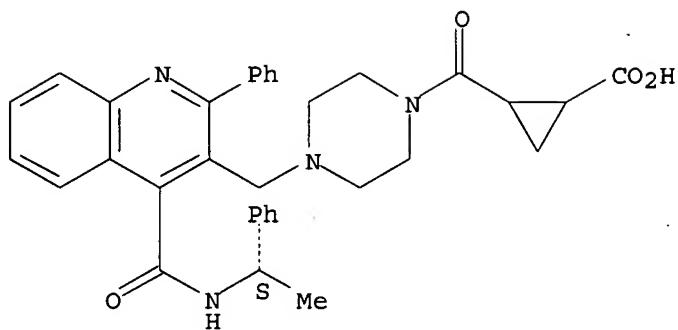
Absolute stereochemistry.



RN 425621-68-7 CAPLUS

CN Cyclopropanecarboxylic acid, 2-[[4-[[2-phenyl-4-[[[(1S)-1-phenylethyl]amino]carbonyl]-3-quinoliny]methyl]-1-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)

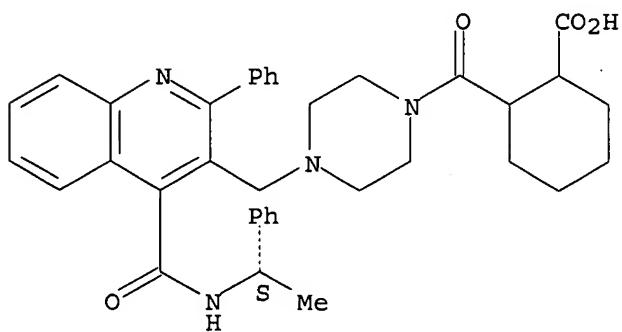
Absolute stereochemistry.



RN 425621-69-8 CAPLUS

CN Cyclohexanecarboxylic acid, 2-[[4-[[2-phenyl-4-[[[(1S)-1-phenylethyl]amino]carbonyl]-3-quinoliny]methyl]-1-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

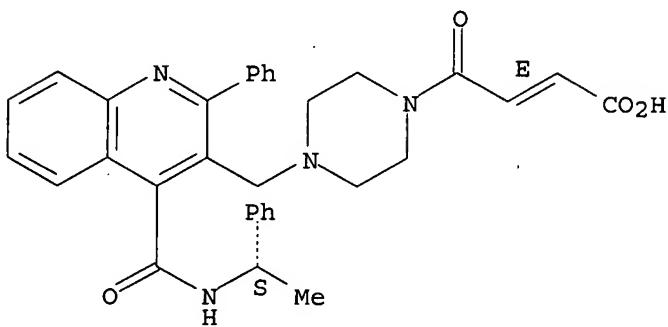


RN 425621-70-1 CAPLUS

CN 2-Butenoic acid, 4-oxo-4-[[4-[[2-phenyl-4-[[[(1S)-1-phenylethyl]amino]carbonyl]-3-quinoliny]methyl]-1-piperazinyl]-, (2E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

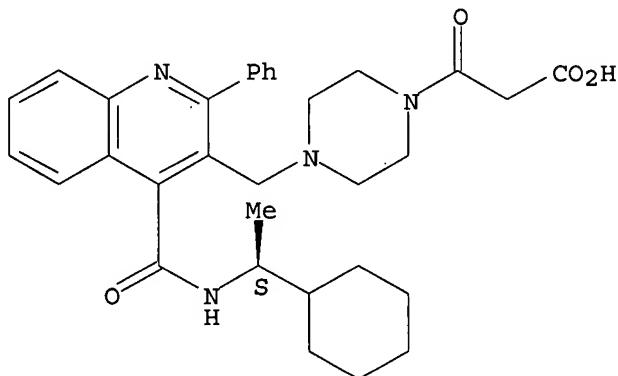


RN 425621-71-2 CAPLUS

CN 1-Piperazinepropanoic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]

]-2-phenyl-3-quinolinylmethyl]- β -oxo- (9CI) (CA INDEX NAME)

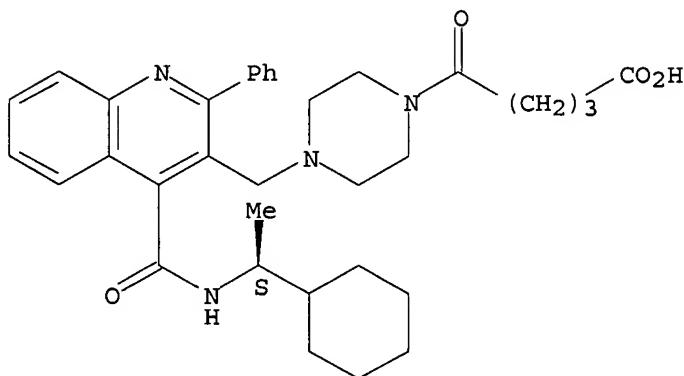
Absolute stereochemistry.



RN 425621-72-3 CAPLUS

CN 1-Piperazinepentanoic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-2-phenyl-3-quinolinylmethyl]- δ -oxo- (9CI) (CA INDEX NAME)

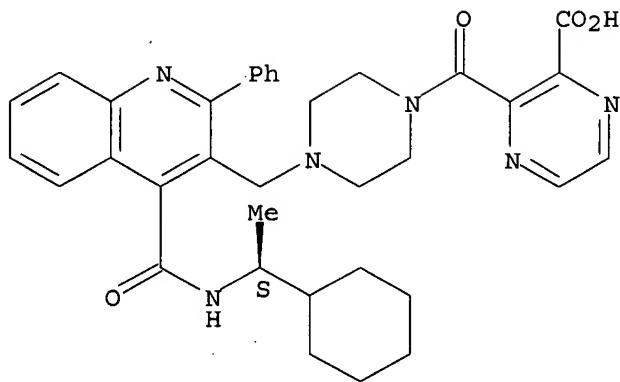
Absolute stereochemistry.



RN 425621-73-4 CAPLUS

CN Pyrazinecarboxylic acid, 3-[[4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-2-phenyl-3-quinolinylmethyl]-1-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)

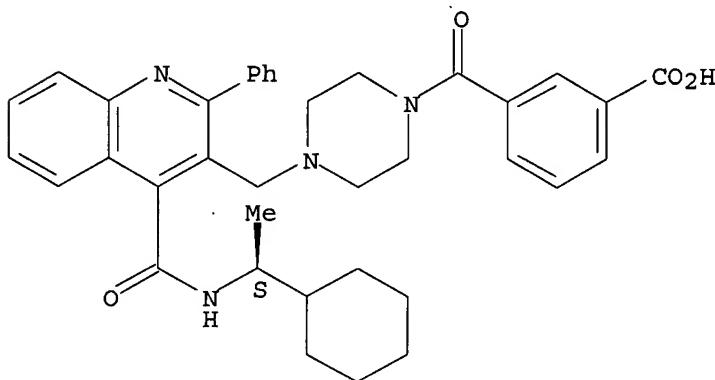
Absolute stereochemistry. Rotation (+).



RN 425621-74-5 CAPLUS

CN Benzoic acid, 3-[[4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-1-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)

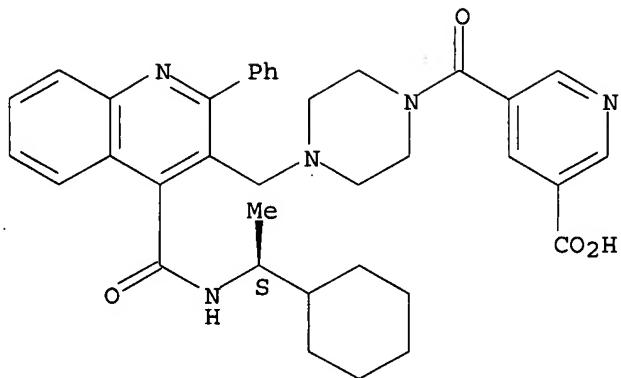
Absolute stereochemistry.



RN 425621-75-6 CAPLUS

CN 3-Pyridinecarboxylic acid, 5-[[4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-1-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)

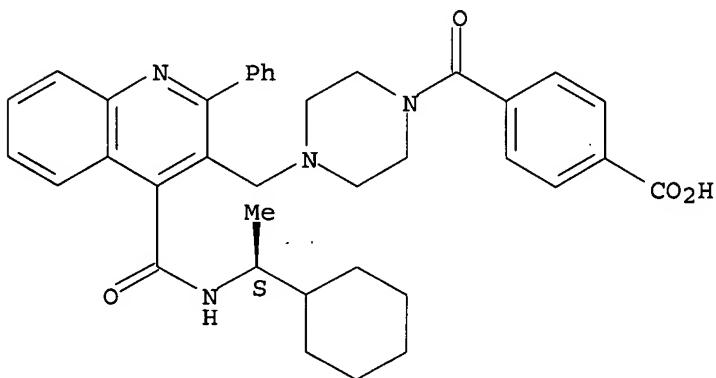
Absolute stereochemistry.



RN 425621-76-7 CAPLUS

CN Benzoic acid, 4-[[4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-1-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)

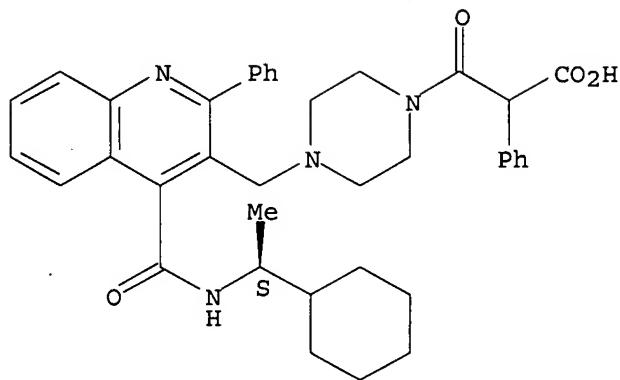
Absolute stereochemistry.



RN 425621-78-9 CAPLUS

CN 1-Piperazinepropanoic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]- β -oxo- α -phenyl-, monosodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

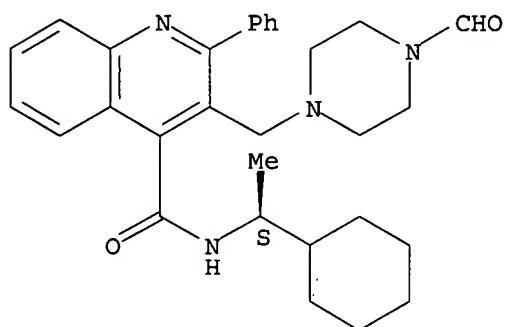


● Na

RN 425621-79-0 CAPLUS

CN 4-Quinoliniccarboxamide, N-[(1S)-1-cyclohexylethyl]-3-[(4-formyl-1-piperazinyl)methyl]-2-phenyl- (9CI) (CA INDEX NAME)

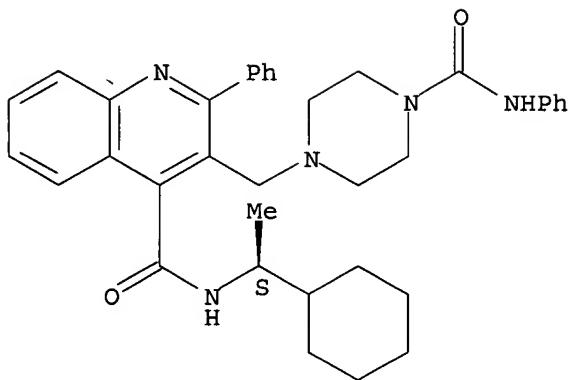
Absolute stereochemistry.



RN 425621-80-3 CAPLUS

CN 4-Quinoliniccarboxamide, N-[(1S)-1-cyclohexylethyl]-2-phenyl-3-[(4-[(phenylamino)carbonyl]-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

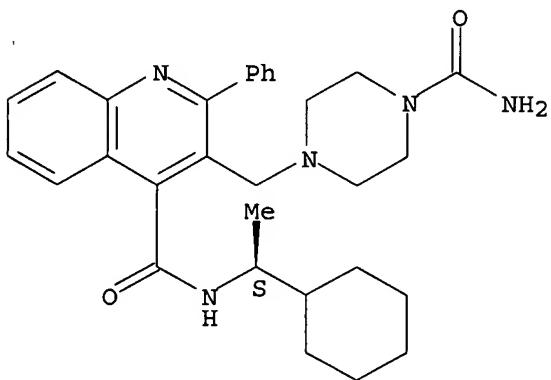
Absolute stereochemistry. Rotation (+).



RN 425621-81-4 CAPLUS

CN 4-Quinolinecarboxamide, 3-[[4-(aminocarbonyl)-1-piperazinyl]methyl]-N-[(1S)-1-cyclohexylethyl]-2-phenyl- (9CI) (CA INDEX NAME)

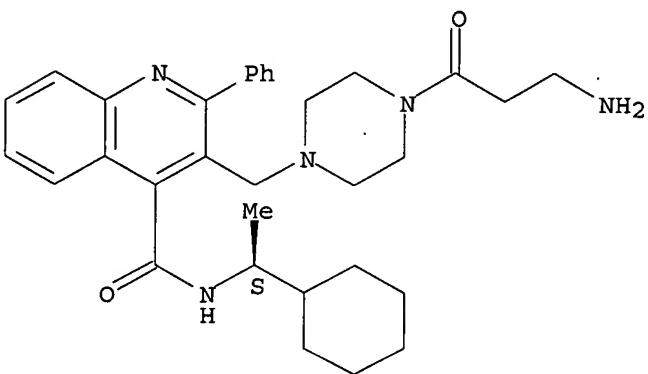
Absolute stereochemistry.



RN 425621-82-5 CAPLUS

CN 4-Quinolinecarboxamide, 3-[[4-(3-amino-1-oxopropyl)-1-piperazinyl]methyl]-N-[(1S)-1-cyclohexylethyl]-2-phenyl- (9CI) (CA INDEX NAME)

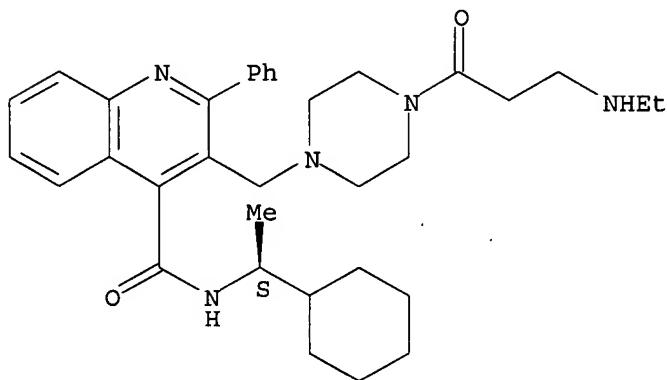
Absolute stereochemistry. Rotation (+).



RN 425621-83-6 CAPLUS

CN 4-Quinolinecarboxamide, N-[(1S)-1-cyclohexylethyl]-3-[[4-[3-(ethylamino)-1-oxopropyl]-1-piperazinyl]methyl]-2-phenyl- (9CI) (CA INDEX NAME)

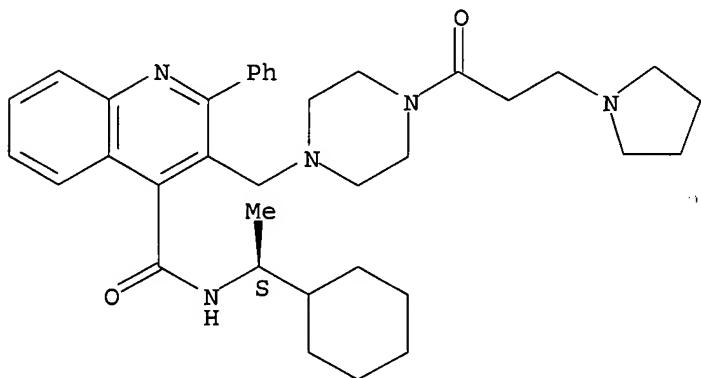
Absolute stereochemistry. Rotation (+).



RN 425621-84-7 CAPLUS

CN 4-Quinolinecarboxamide, N-[(1S)-1-cyclohexylethyl]-3-[[4-[1-oxo-3-(1-pyrrolidinyl)propyl]-1-piperazinyl]methyl]-2-phenyl- (9CI) (CA INDEX NAME)

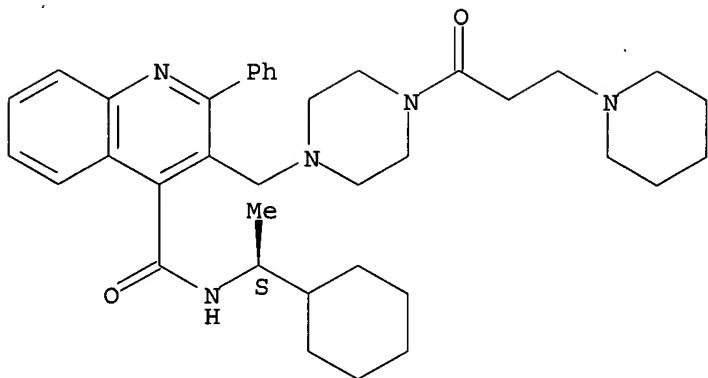
Absolute stereochemistry. Rotation (-).



RN 425621-85-8 CAPLUS

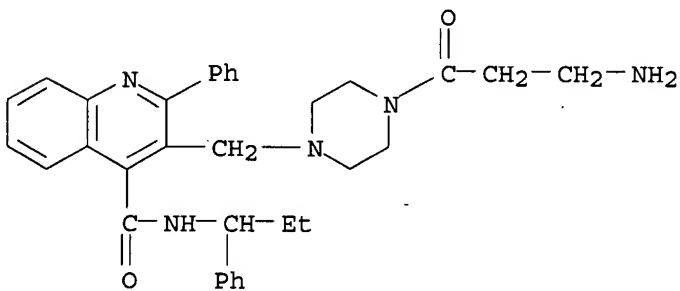
CN 4-Quinolinecarboxamide, N-[(1S)-1-cyclohexylethyl]-3-[[4-[1-oxo-3-(1-piperidinyl)propyl]-1-piperazinyl]methyl]-2-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



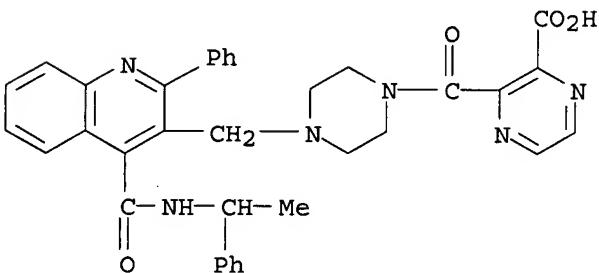
RN 425621-86-9 CAPLUS

CN 4-Quinolinecarboxamide, 3-[[4-(3-amino-1-oxopropyl)-1-piperazinyl]methyl]-2-phenyl-N-(1-phenylpropyl)- (9CI) (CA INDEX NAME)



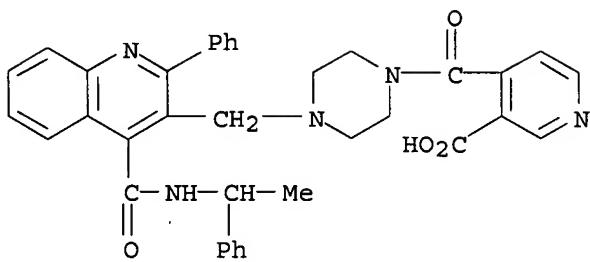
RN 425621-87-0 CAPLUS

CN Pyrazinecarboxylic acid, 3-[[4-[[2-phenyl-4-[[[(1-phenylethyl)amino]carbonyl]-3-quinoliny]methyl]-1-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)



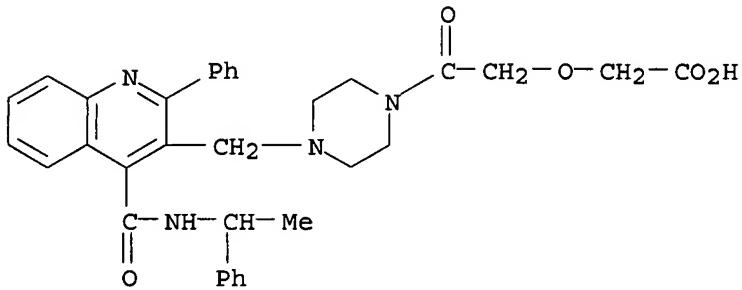
RN 425621-88-1 CAPLUS

CN 3-Pyridinecarboxylic acid, 4-[[4-[[2-phenyl-4-[[[(1-phenylethyl)amino]carbonyl]-3-quinoliny]methyl]-1-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)



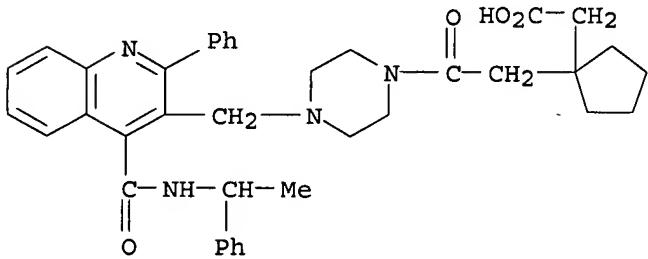
RN 425621-89-2 CAPLUS

CN Acetic acid, [2-oxo-2-[4-[[2-phenyl-4-[(1-phenylethyl)amino]carbonyl]-3-quinolinyl]methyl]-1-piperazinyl]ethoxy] - (9CI) (CA INDEX NAME)



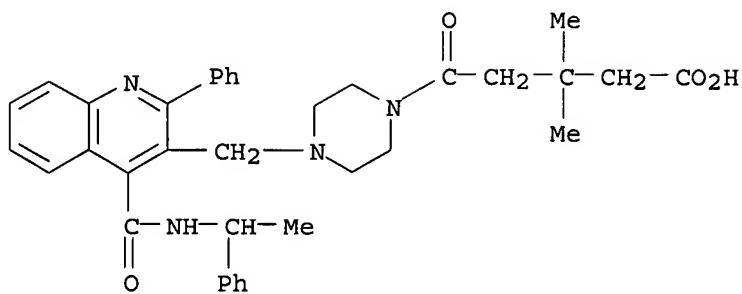
RN 425621-90-5 CAPLUS

CN Cyclopentaneacetic acid, 1-[2-oxo-2-[4-[[2-phenyl-4-[(1-phenylethyl)amino]carbonyl]-3-quinolinyl]methyl]-1-piperazinyl]ethyl] - (9CI) (CA INDEX NAME)



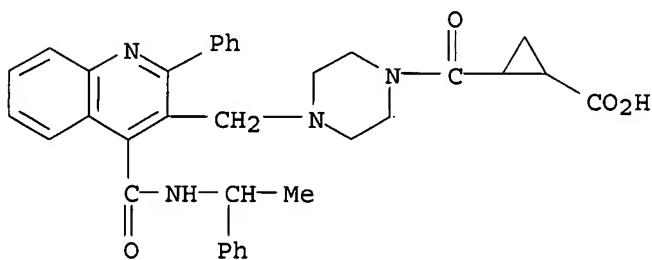
RN 425621-91-6 CAPLUS

CN 1-Piperazepentanoic acid, β,β -dimethyl- δ -oxo-4-[[2-phenyl-4-[(1-phenylethyl)amino]carbonyl]-3-quinolinyl]methyl] - (9CI) (CA INDEX NAME)



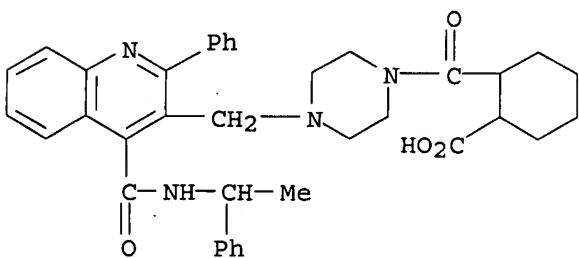
RN 425621-92-7 CAPLUS

CN Cyclopropanecarboxylic acid, 2-[[4-[[2-phenyl-4-[(1-phenylethyl)amino]carbonyl]-3-quinolinylmethyl]-1-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)



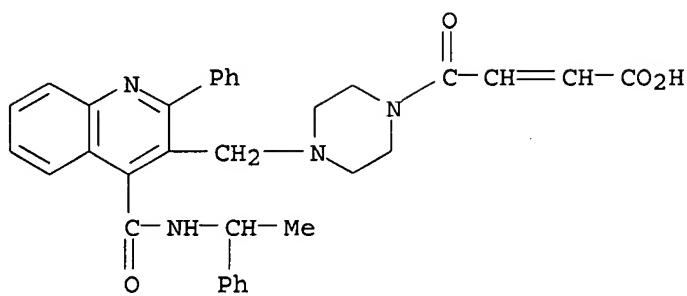
RN 425621-93-8 CAPLUS

CN Cyclohexanecarboxylic acid, 2-[[4-[[2-phenyl-4-[(1-phenylethyl)amino]carbonyl]-3-quinolinylmethyl]-1-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)



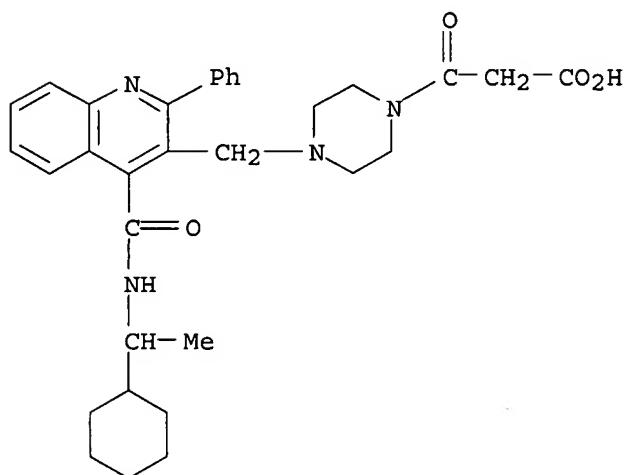
RN 425621-94-9 CAPLUS

CN 2-Butenoic acid, 4-oxo-4-[[2-phenyl-4-[(1-phenylethyl)amino]carbonyl]-3-quinolinylmethyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)



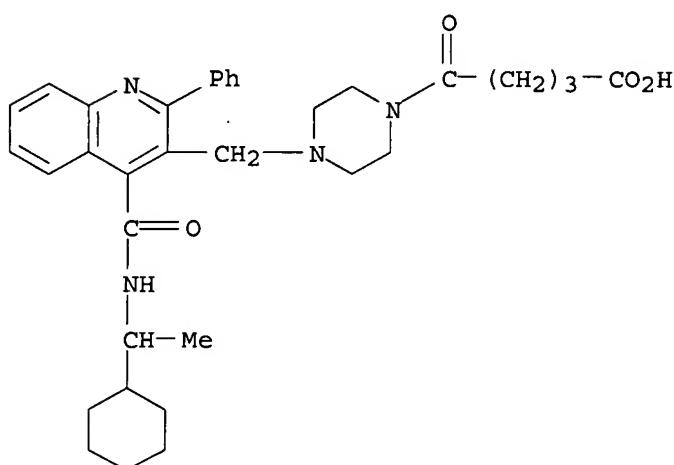
RN 425621-95-0 CAPLUS

CN 1-Piperazinepropanoic acid, 4-[[4-[[[(1-cyclohexylethyl)amino]carbonyl]-2-phenyl-3-quinoliny]methyl]-β-oxo- (9CI) (CA INDEX NAME)



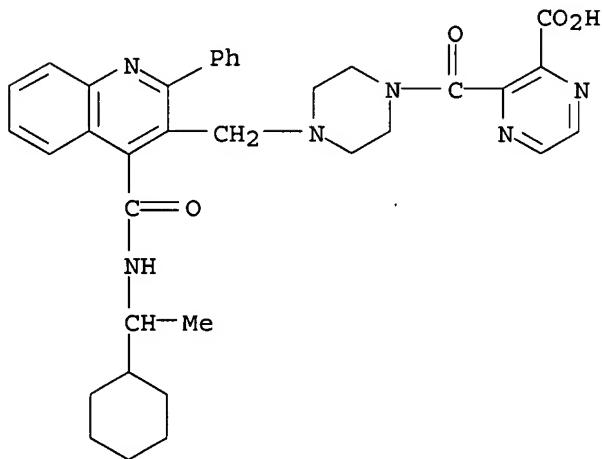
RN 425621-96-1 CAPLUS

CN 1-Piperazepentanoic acid, 4-[[4-[[[(1-cyclohexylethyl)amino]carbonyl]-2-phenyl-3-quinoliny]methyl]-δ-oxo- (9CI) (CA INDEX NAME)



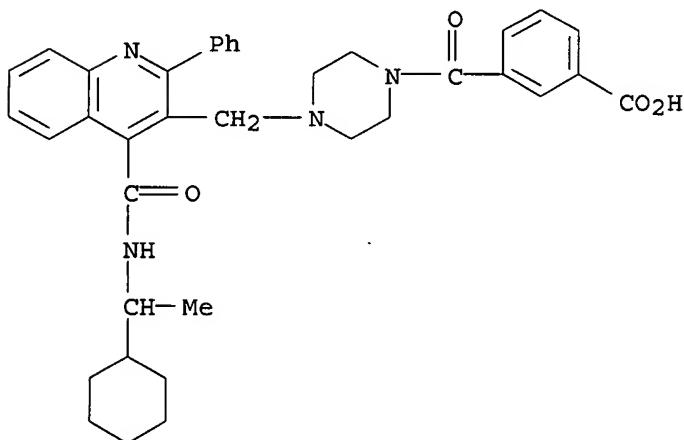
RN 425621-97-2 CAPLUS

CN Pyrazinecarboxylic acid, 3-[[4-[[4-[(1-cyclohexylethyl)amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-1-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)



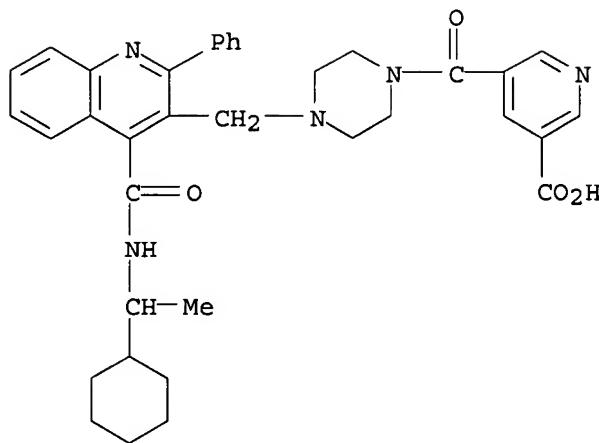
RN 425621-98-3 CAPLUS

CN Benzoic acid, 3-[[4-[[4-[(1-cyclohexylethyl)amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-1-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)



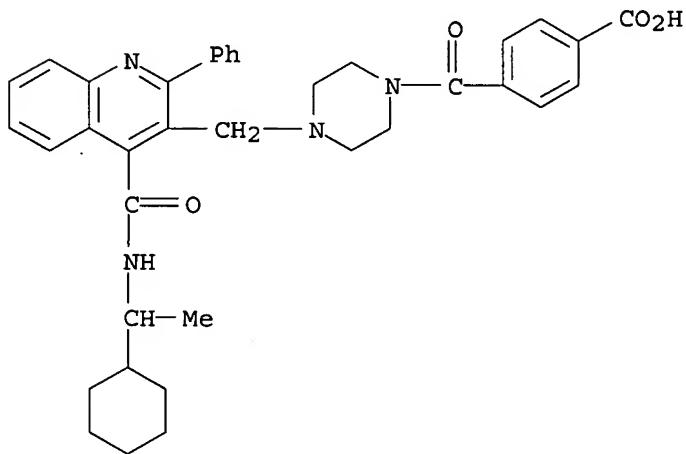
RN 425621-99-4 CAPLUS

CN 3-Pyridinecarboxylic acid, 5-[[4-[[4-[(1-cyclohexylethyl)amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-1-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)



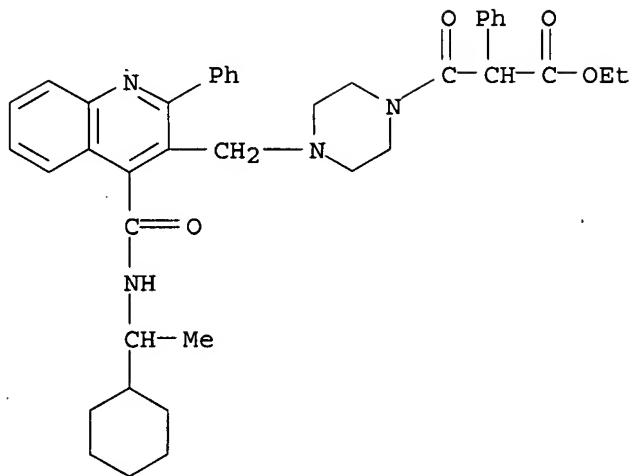
RN 425622-00-0 CAPLUS

CN Benzoic acid, 4-[[4-[[4-[(1-cyclohexylethyl)amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-1-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)



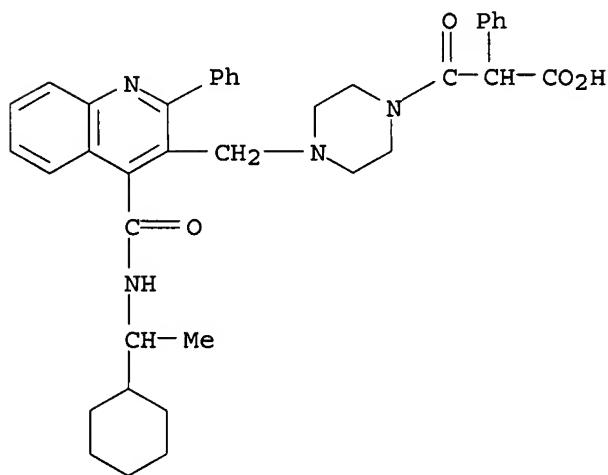
RN 425622-01-1 CAPLUS

CN 1-Piperazinepropanoic acid, 4-[[4-[[4-[(1-cyclohexylethyl)amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-β-oxo-α-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



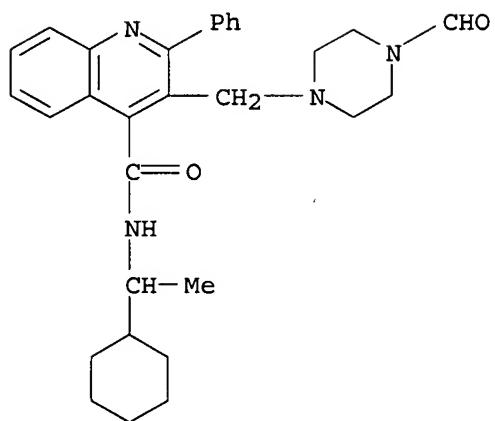
RN 425622-02-2 CAPLUS

CN 1-Piperazinepropanoic acid, 4-[[4-[(1-cyclohexylethyl)amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-β-oxo-α-phenyl- (9CI) (CA INDEX NAME)



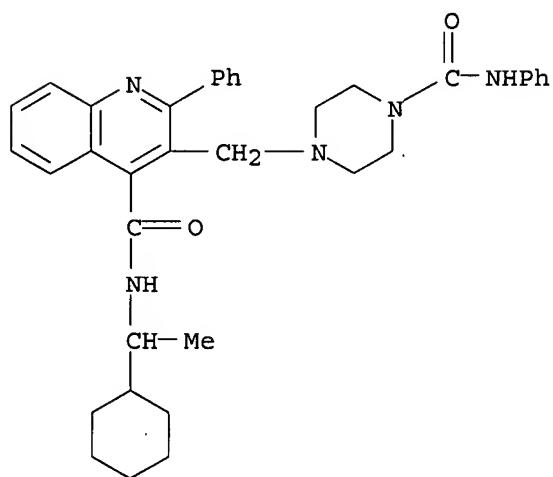
RN 425622-03-3 CAPLUS

CN 4-Quinolinecarboxamide, N-(1-cyclohexylethyl)-3-[(4-formyl-1-piperazinyl)methyl]-2-phenyl- (9CI) (CA INDEX NAME)



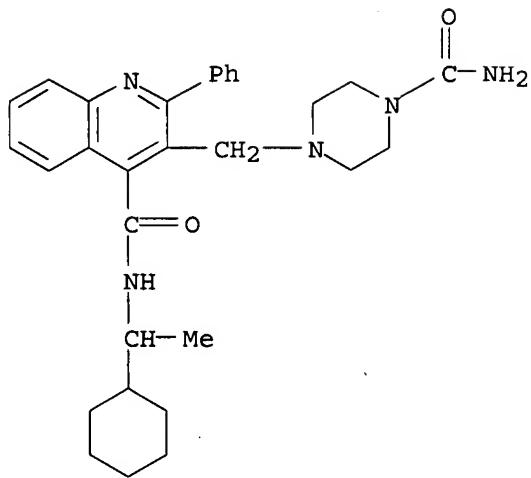
RN 425622-04-4 CAPLUS

CN 4-Quinolinecarboxamide, N-(1-cyclohexylethyl)-2-phenyl-3-[(4-(phenylamino)carbonyl)-1-piperazinyl]methyl- (9CI) (CA INDEX NAME)



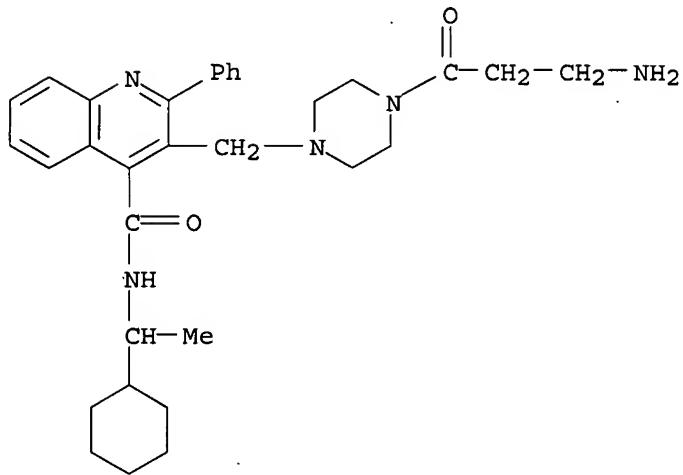
RN 425622-05-5 CAPLUS

CN 4-Quinolinecarboxamide, 3-[(4-(aminocarbonyl)-1-piperazinyl)methyl]-N-(1-cyclohexylethyl)-2-phenyl- (9CI) (CA INDEX NAME)



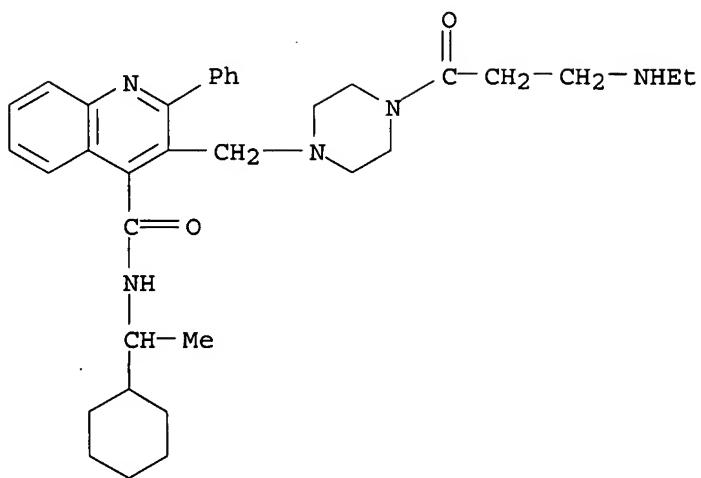
RN 425622-06-6 CAPLUS

CN 4-Quinolinecarboxamide, 3-[(4-(3-amino-1-oxopropyl)-1-piperazinyl)methyl]-N-(1-cyclohexylethyl)-2-phenyl- (9CI) (CA INDEX NAME)



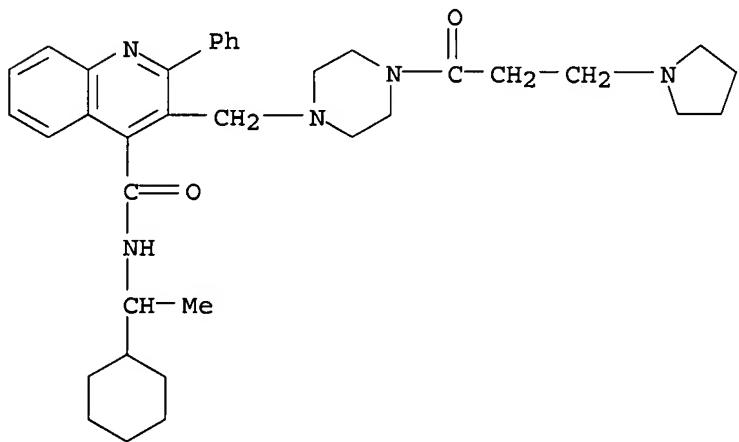
RN 425622-07-7 CAPLUS

CN 4-Quinolinecarboxamide, N-(1-cyclohexylethyl)-3-[(4-[(3-ethylamino)-1-oxopropyl]-1-piperazinyl)methyl]-2-phenyl- (9CI) (CA INDEX NAME)



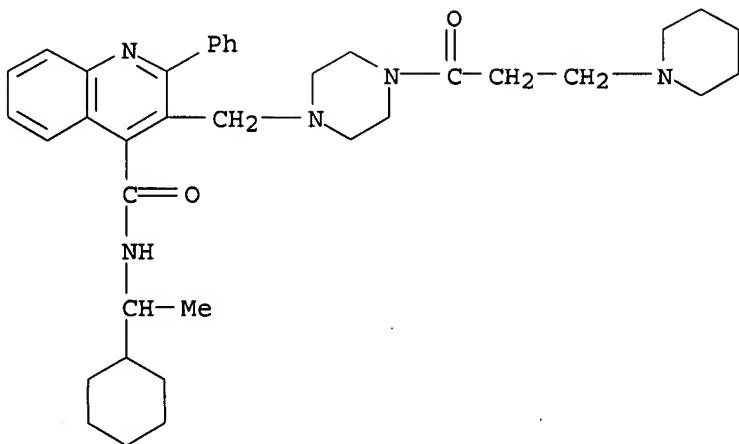
RN 425622-08-8 CAPLUS

CN 4-Quinolinecarboxamide, N-(1-cyclohexylethyl)-3-[[4-[1-oxo-3-(1-pyrrolidinyl)propyl]-1-piperazinyl]methyl]-2-phenyl- (9CI) (CA INDEX NAME)



RN 425622-09-9 CAPLUS

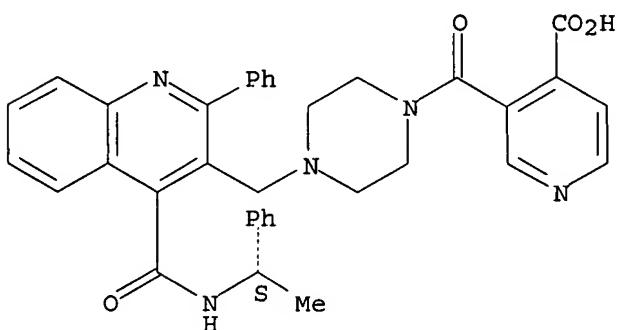
CN 4-Quinolinecarboxamide, N-(1-cyclohexylethyl)-3-[[4-[1-oxo-3-(1-piperidinyl)propyl]-1-piperazinyl]methyl]-2-phenyl- (9CI) (CA INDEX NAME)



RN 425622-10-2 CAPLUS

CN 4-Pyridinecarboxylic acid, 3-[[4-[[2-phenyl-4-[[[(1S)-1-phenylethyl]amino]carbonyl]-3-quinoliny]methyl]-1-piperazinyl]carbonyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

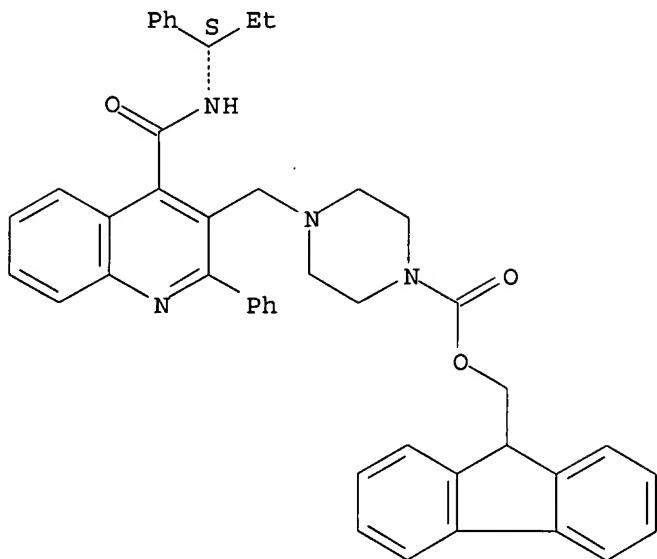


IT 270574-12-4P, 3-[(4-Fmoc-piperazin-1-yl)methyl]-2-phenylquinoline-4-carboxylic acid (S)-1-phenylpropylamide 270574-13-5P, 3-[(4-Fmoc-piperazin-1-yl)methyl]-2-phenylquinoline-4-carboxylic acid (S)-1-cyclohexylethylamide 425622-12-4P, 3-[(4-Fmoc-piperazin-1-yl)methyl]-2-phenylquinoline-4-carboxylic acid (S)-1-phenylethylamide 425622-14-6P, [3-Oxo-3-[(2-phenyl-4-[(S)-1-phenylpropyl]carbamoyl)quinolin-3-yl]methyl]piperazin-1-yl]propyl]carbamic acid tert-butyl ester 425622-17-9P, 4-[(4-[(S)-1-Cyclohexylethyl]carbamoyl)-2-phenylquinolin-3-yl]methyl]piperazine-1-carboxylic acid tert-butyl ester 425622-18-0P, 3-[(4-Acryloylpiperazin-1-yl)methyl]-2-phenylquinoline-4-carboxylic acid (S)-1-cyclohexylethylamide
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of quinoline derivs. as NK-3 and NK-2 antagonists)

RN 270574-12-4 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[2-phenyl-4-[[[(1S)-1-phenylpropyl]amino]carbonyl]-3-quinoliny]methyl]-, 9H-fluoren-9-ylmethyl ester (9CI) . (CA INDEX NAME)

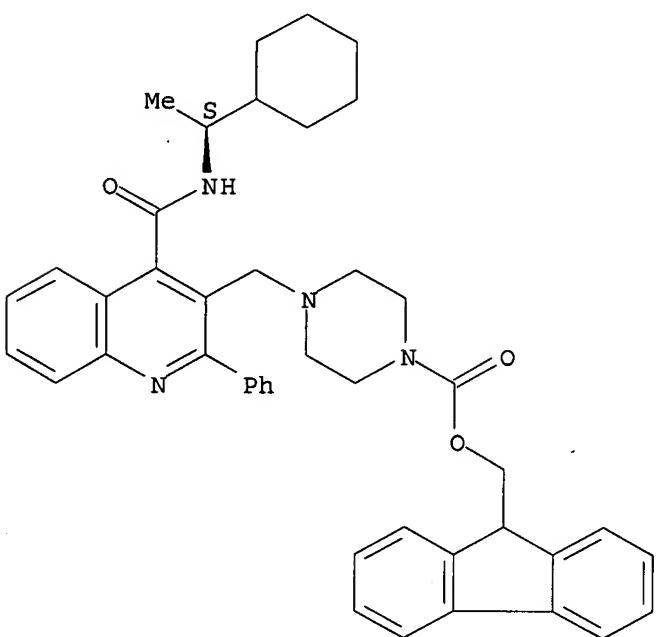
Absolute stereochemistry.



RN 270574-13-5 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-2-phenyl-3-quinolinylmethyl]-, 9H-fluoren-9-ylmethyl ester (9CI) (CA INDEX NAME)

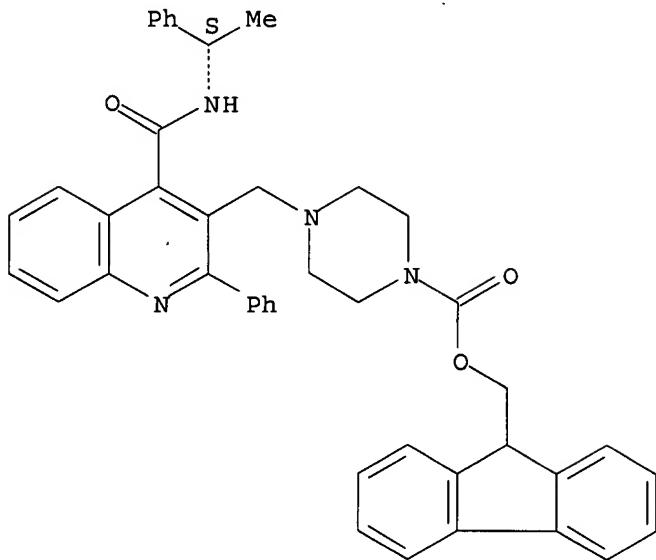
Absolute stereochemistry.



RN 425622-12-4 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[2-phenyl-4-[[[(1S)-1-phenylethyl]amino]carbonyl]-3-quinolinylmethyl]-, 9H-fluoren-9-ylmethyl ester (9CI) (CA INDEX NAME)

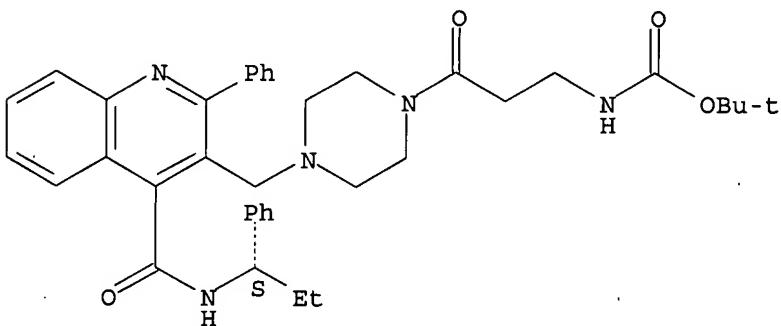
Absolute stereochemistry.



RN 425622-14-6 CAPLUS

CN Carbamic acid, [3-oxo-3-[4-[[2-phenyl-4-[[[(1S)-1-phenylpropyl]amino]carbonyl]-3-quinoliny]methyl]-1-piperazinyl]propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

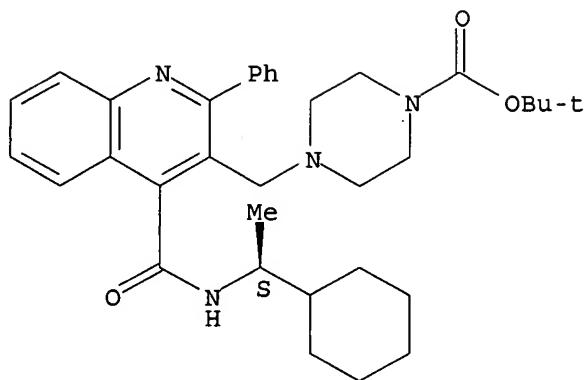
Absolute stereochemistry.



RN 425622-17-9 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-2-phenyl-3-quinoliny]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

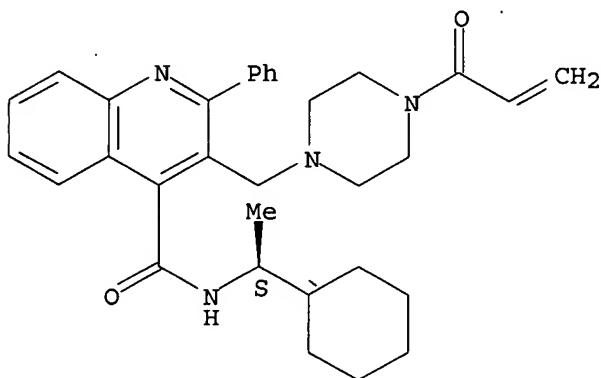
Absolute stereochemistry.



RN 425622-18-0 CAPLUS

CN 4-Quinolinecarboxamide, N-[(1S)-1-cyclohexylethyl]-3-[[4-(1-oxo-2-propenyl)-1-piperazinyl]methyl]-2-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

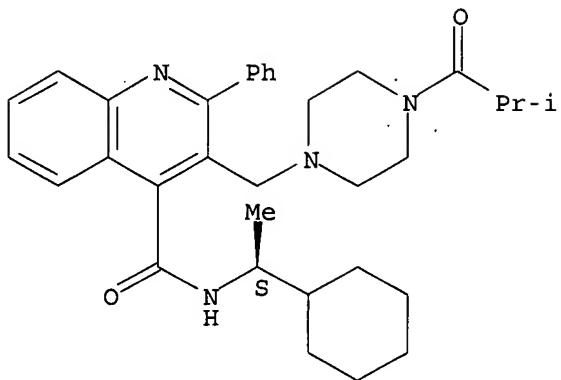


RE.CNT 3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:290353 CAPLUS
 DN 135:55462
 TI Stepwise modulation of neurokinin-3 and neurokinin-2 receptor affinity and selectivity in quinoline tachykinin receptor antagonists
 AU Blaney, Frank E.; Raveglia, Luca F.; Artico, Marco; Cavagnera, Stefano; Dartois, Catherine; Farina, Carlo; Grugni, Mario; Gagliardi, Stefania; Luttmann, Mark A.; Martinelli, Marisa; Nadler, Guy M. M. G.; Parini, Carlo; Petrillo, Paola; Sarau, Henry M.; Scheideler, Mark A.; Hay, Douglas W. P.; Giardina, Giuseppe A. M.
 CS Department of Computational Structural Sciences, SmithKline Beecham Pharmaceuticals, Harlow Essex, CM19 5AW, UK
 SO Journal of Medicinal Chemistry (2001), 44(11), 1675-1689
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society
 DT Journal
 LA English
 AB A stepwise chemical modification from human neurokinin-3 receptor (hNK-3R)-selective antagonists to potent and combined hNK-3R and hNK-2R antagonists using the same 2-phenylquinoline template is described. Docking studies with 3-D models of the hNK-3 and hNK-2 receptors were used to drive the chemical design and speed up the identification of potent and combined antagonists at both receptors. (S)-(+)-N-(1-Cyclohexylethyl)-3-[(4-morpholin-4-yl)piperidin-1-yl]methyl-2-phenylquinoline-4-carboxamide (SB-400238: hNK-3R binding affinity, $K_i = 0.8$ nM; hNK-2R binding affinity, $K_i = 0.8$ nM) emerged as the best example in this approach. Further studies led to the identification of (S)-(+)-N-(1,2,2-trimethylpropyl)-3-[(4-piperidin-1-yl)piperidin-1-yl]methyl-2-phenylquinoline-4-carboxamide (SB-414240: hNK-3R binding affinity, $K_i = 193$ nM; hNK-2R binding affinity, $K_i = 1.0$ nM) as the first hNK-2R-selective antagonist belonging to the 2-phenylquinoline chemical class. Since some members of this chemical series showed a significant binding affinity for the human μ -opioid receptor (hMOR), docking studies were also conducted on a 3-D model of the hMOR, resulting in the identification of a viable chemical strategy to avoid any significant μ -opioid component. Compds. SB-400238 and SB-414240 are therefore suitable pharmacol. tools in the tachykinin area to elucidate further the pathophysiol. role of NK-3 and NK-2 receptors and the therapeutic potential of selective NK-2 (SB-400238) or combined NK-3 and NK-2 (SB-414240) receptor antagonists.
 IT 270573-24-5P 270574-12-4P 270574-13-5P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (stepwise modulation of neurokinin-3 and NK-2 receptor affinity and selectivity in quinoline tachykinin receptor antagonists)
 RN 270573-24-5 CAPLUS
 CN 4-Quinolinecarboxamide, N-[(1S)-1-cyclohexylethyl]-3-[[4-(2-methyl-1-oxopropyl)-1-piperazinyl]methyl]-2-phenyl- (9CI) (CA INDEX NAME)

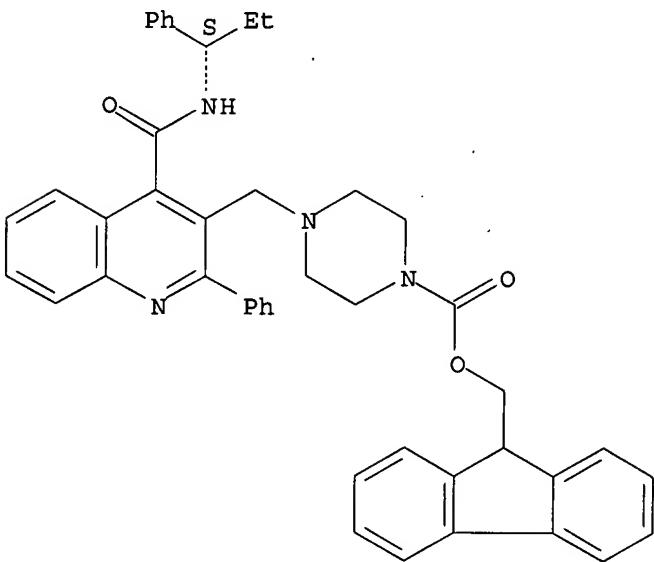
Absolute stereochemistry.



RN 270574-12-4 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[2-phenyl-4-[[[(1S)-1-phenylpropyl]amino]carbonyl]-3-quinolinyl]methyl]-, 9H-fluoren-9-ylmethyl ester (9CI) (CA INDEX NAME)

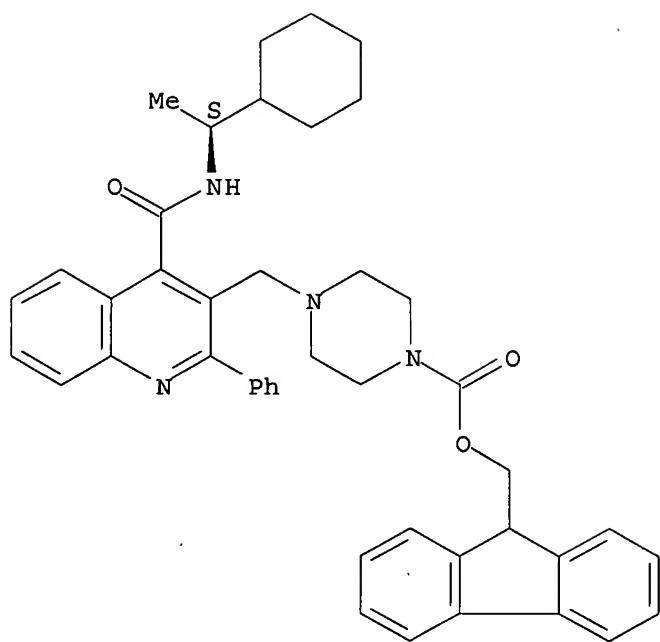
Absolute stereochemistry.



RN 270574-13-5 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-, 9H-fluoren-9-ylmethyl ester (9CI) (CA INDEX NAME)

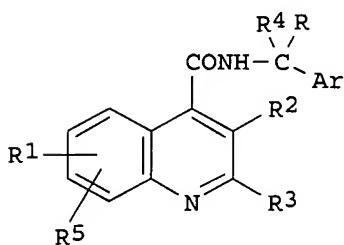
Absolute stereochemistry.



RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:368301 CAPLUS
 DN 133:4605
 TI Preparation of quinoline-4-carboxamide derivatives as NK-3 and NK-2 receptor antagonists
 IN Farina, Carlo; Giardina, Giuseppe; Grugni, Mario; Morvan, Marcel; Nadler, Guy Margueritte Marie Gerard; Raveglia, Luca Francesco
 PA Smithkline Beecham S.P.A., Italy; Smithkline Beecham Laboratoires Pharmaceutiques
 SO PCT Int. Appl., 84 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000031037	A1	20000602	WO 1999-EP9115	19991119
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2351865	AA	20000602	CA 1999-2351865	19991119
	EP 1131295	A1	20010912	EP 1999-961001	19991119
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	TR 200101412	T2	20011022	TR 2001-200101412	19991119
	BR 9915475	A	20011218	BR 1999-15475	19991119
	NZ 511777	A	20031219	NZ 1999-511777	19991119
	AU 768708	B2	20040108	AU 2000-17770	19991119
	NO 2001002473	A	20010718	NO 2001-2473	20010518
	ZA 2001004071	A	20030107	ZA 2001-4071	20010518
	US 2003212101	A1	20031113	US 2003-358938	20030205
	US 6780875	B2	20040824		
PRAI	GB 1998-25552	A	19981120		
	GB 1998-25553	A	19981120		
	WO 1999-EP9115	W	19991119		
	US 2001-856085	B1	20010904		
	US 2002-159218	B1	20020531		
OS	MARPAT 133:4605				
GI					



AB The title compds. of formula I [Ar = optionally substituted aryl or a C5-7

cycloalkdienyl group, or an optionally substituted C5-7 cycloalkyl group, or an optionally substituted single or fused ring aromatic heterocyclic group; R = H, linear or branched C1-6 alkyl, C3-7 cycloalkyl, C3-7 cycloalkylalkyl, R1 = H or up to three optional substituents selected from the list consisting of: C1-6 alkyl, C1-6 alkenyl, aryl, C1-6 alkoxy, OH, halogen, NO₂, CN, etc; R2 = (CH₂)_nY₁Y₂; n = an integer ranging from 1 - 9; Y₁, Y₂ independently = (un)substituted C1-6 alkyl or together with N to which they are attached represent optionally substituted N linked single or fused ring heterocyclic group; R3 = branched or linear C1-6 alkyl, C3-7 cycloalkyl, C4-7 cycloalkyl, etc; R4 = H, C1-6 alkyl; R5 = H, halogen] useful as NK-3 and NK-2 receptor antagonists (no data given) are prepared

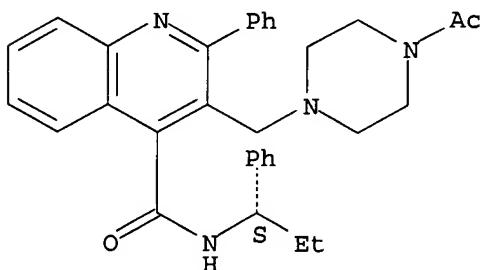
IT 270573-22-3P 270573-23-4P 270573-24-5P
 270573-31-4P 270573-47-2P 270573-48-3P
 270573-49-4P 270573-52-9P 270573-53-0P
 270573-84-7P 270573-88-1P 270573-91-6P
 270573-92-7P 270573-93-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of quinoline-4-carboxamide derivs. as NK-3 and NK-2 receptor antagonists)

RN 270573-22-3 CAPLUS

CN 4-Quinolinecarboxamide, 3-[(4-acetyl-1-piperazinyl)methyl]-2-phenyl-N-[(1S)-1-phenylpropyl]- (9CI) (CA INDEX NAME)

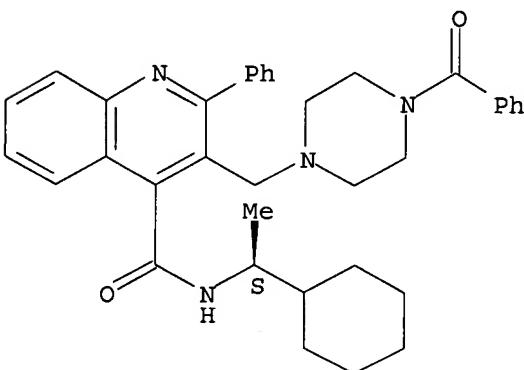
Absolute stereochemistry.



RN 270573-23-4 CAPLUS

CN 4-Quinolinecarboxamide, 3-[(4-benzoyl-1-piperazinyl)methyl]-N-[(1S)-1-cyclohexylethyl]-2-phenyl- (9CI) (CA INDEX NAME)

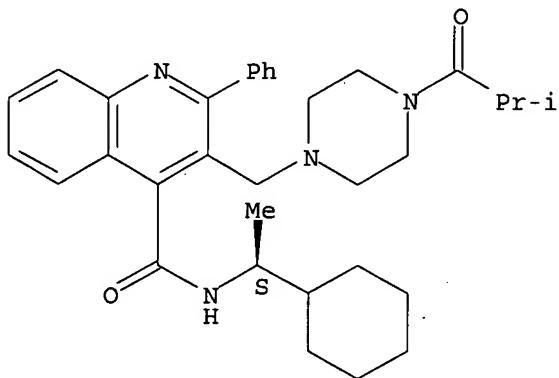
Absolute stereochemistry.



RN 270573-24-5 CAPLUS

CN 4-Quinolinecarboxamide, N-[(1S)-1-cyclohexylethyl]-3-[[4-(2-methyl-1-oxopropyl)-1-piperazinyl]methyl]-2-phenyl- (9CI) (CA INDEX NAME)

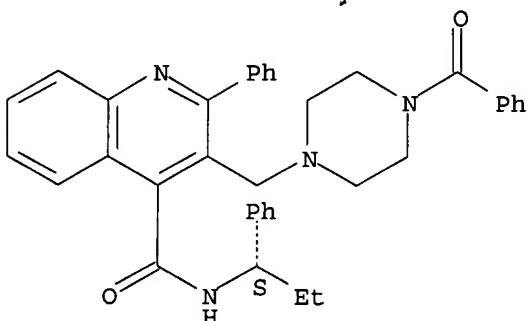
Absolute stereochemistry.



RN 270573-31-4 CAPLUS

CN 4-Quinolinecarboxamide, 3-[(4-benzoyl-1-piperazinyl)methyl]-2-phenyl-N-[(1S)-1-phenylpropyl]-, hydrochloride (2:3) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

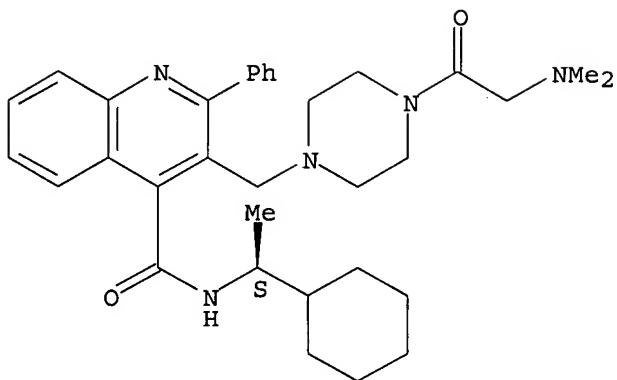


● 3/2 HCl

RN 270573-47-2 CAPLUS

CN 4-Quinolinecarboxamide, N-[(1S)-1-cyclohexylethyl]-3-[[4-[(dimethylamino)acetyl]-1-piperazinyl]methyl]-2-phenyl- (9CI) (CA INDEX NAME)

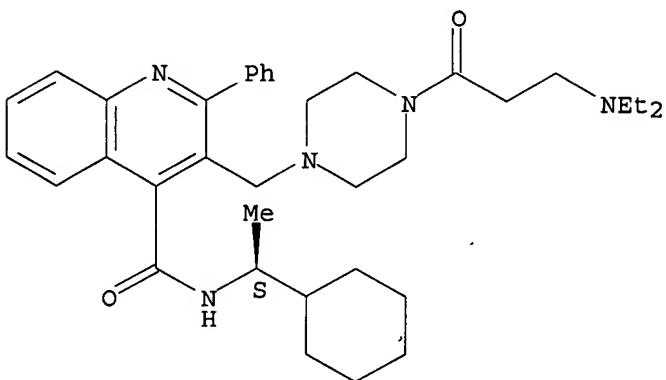
Absolute stereochemistry.



RN 270573-48-3 CAPLUS

CN 4-Quinolinecarboxamide, N-[(1S)-1-cyclohexylethyl]-3-[[4-[3-(diethylamino)-1-oxopropyl]-1-piperazinyl]methyl]-2-phenyl- (9CI) (CA INDEX NAME)

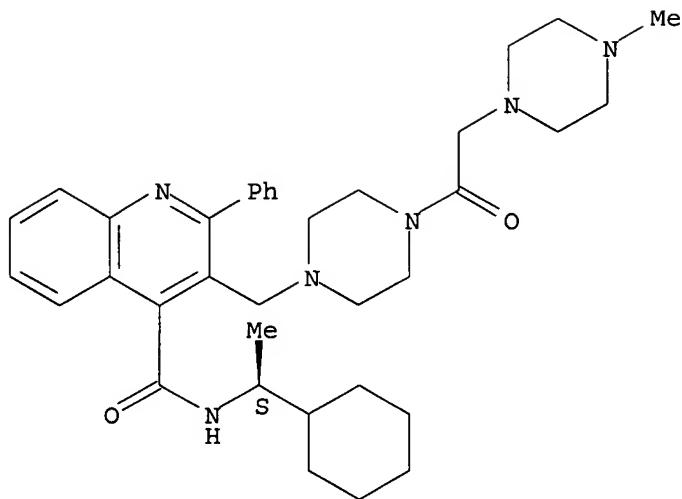
Absolute stereochemistry.



RN 270573-49-4 CAPLUS

CN 4-Quinolinecarboxamide, N-[(1S)-1-cyclohexylethyl]-3-[[4-[(4-methyl-1-piperazinyl)acetyl]-1-piperazinyl]methyl]-2-phenyl- (9CI) (CA INDEX NAME)

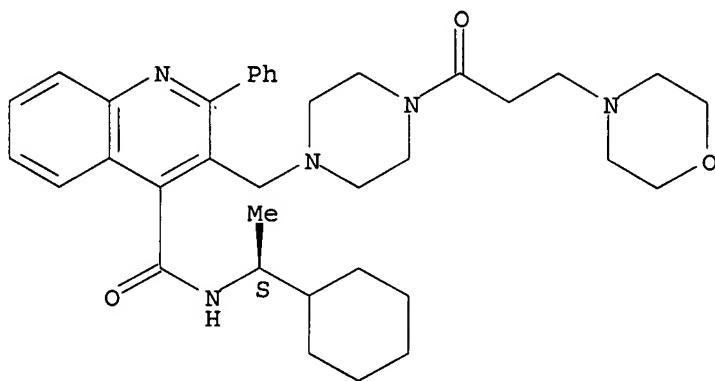
Absolute stereochemistry.



RN 270573-52-9 CAPLUS

CN 4-Quinolinecarboxamide, N-[(1S)-1-cyclohexylethyl]-3-[[4-[3-(4-morpholinyl)-1-oxopropyl]-1-piperazinyl]methyl]-2-phenyl- (9CI) (CA INDEX NAME)

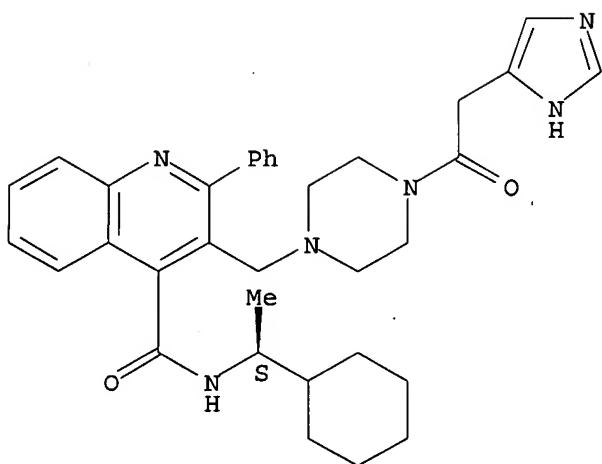
Absolute stereochemistry.



RN 270573-53-0 CAPLUS

CN 4-Quinolinecarboxamide, N-[(1S)-1-cyclohexylethyl]-3-[[4-(1H-imidazol-4-ylacetyl)-1-piperazinyl]methyl]-2-phenyl- (9CI) (CA INDEX NAME)

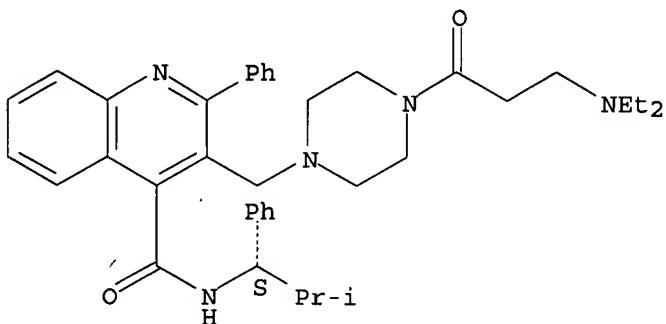
Absolute stereochemistry.



RN 270573-84-7 CAPLUS

CN 4-Quinolincarboxamide, 3-[[4-[3-(diethylamino)-1-oxopropyl]-1-piperazinyl]methyl]-N-[(1S)-2-methyl-1-phenylpropyl]-2-phenyl- (9CI) (CA INDEX NAME)

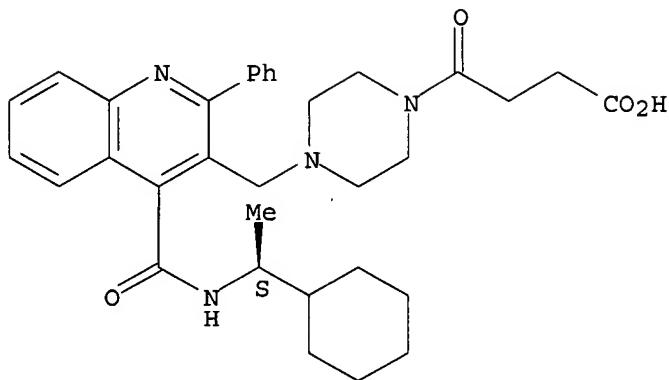
Absolute stereochemistry.



RN 270573-88-1 CAPLUS

CN 1-Piperazinebutanoic acid, 4-[[4-[[[(1S)-1-cyclohexylethyl]amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]- γ -oxo- (9CI) (CA INDEX NAME)

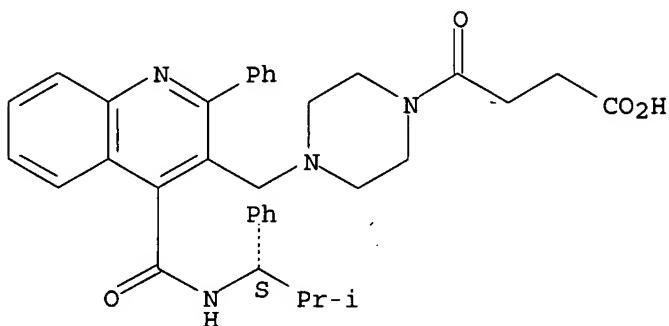
Absolute stereochemistry.



RN 270573-91-6 CAPLUS

CN 1-Piperazinebutanoic acid, 4-[[4-[[[(1S)-2-methyl-1-phenylpropyl]amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-gamma-oxo- (9CI) (CA INDEX NAME)

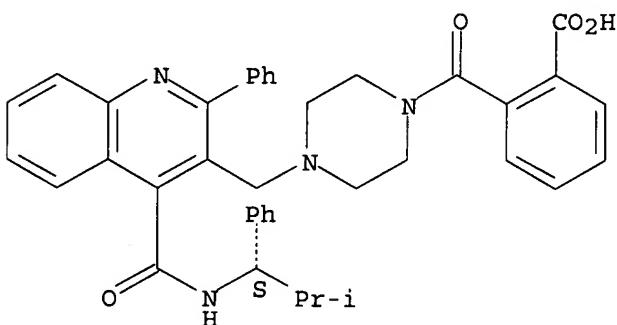
Absolute stereochemistry.



RN 270573-92-7 CAPLUS

CN Benzoic acid, 2-[[4-[[4-[[[(1S)-2-methyl-1-phenylpropyl]amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-1-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)

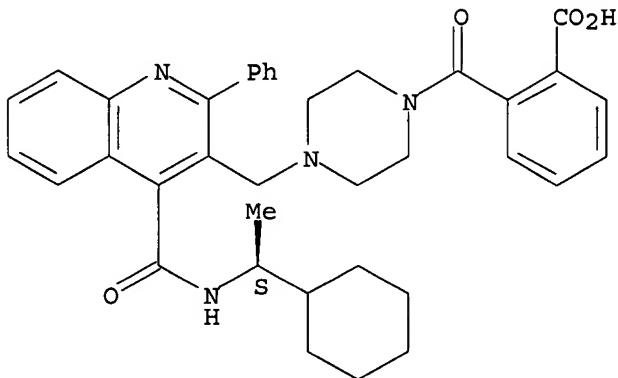
Absolute stereochemistry.



RN 270573-93-8 CAPLUS

CN Benzoic acid, 2-[[4-[[[1S)-1-cyclohexylethyl]amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-1-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



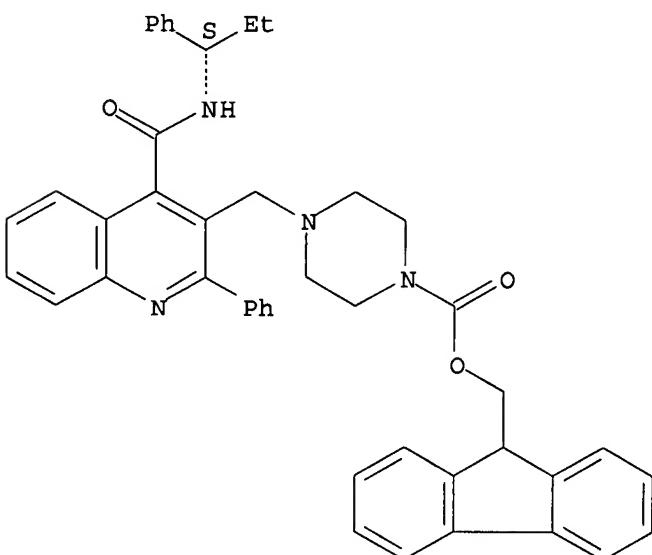
IT 270574-12-4P 270574-13-5P 270574-14-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of quinoline-4-carboxamide derivs. as NK-3 and NK-2 receptor antagonists)

RN 270574-12-4 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[2-phenyl-4-[[[1S)-1-phenylpropyl]amino]carbonyl]-3-quinolinyl]methyl]-, 9H-fluoren-9-ylmethyl ester (9CI) (CA INDEX NAME)

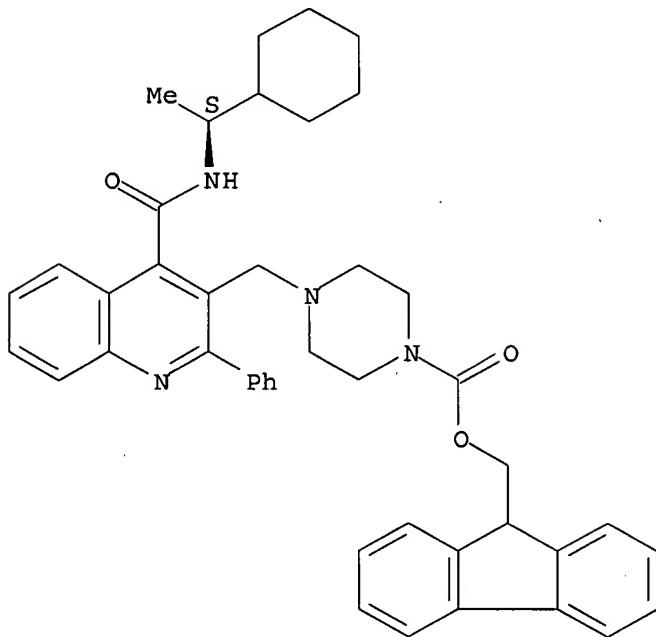
Absolute stereochemistry.



RN 270574-13-5 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-[[[1S)-1-cyclohexylethyl]amino]carbonyl]-2-phenyl-3-quinolinyl]methyl]-, 9H-fluoren-9-ylmethyl ester (9CI) (CA INDEX NAME)

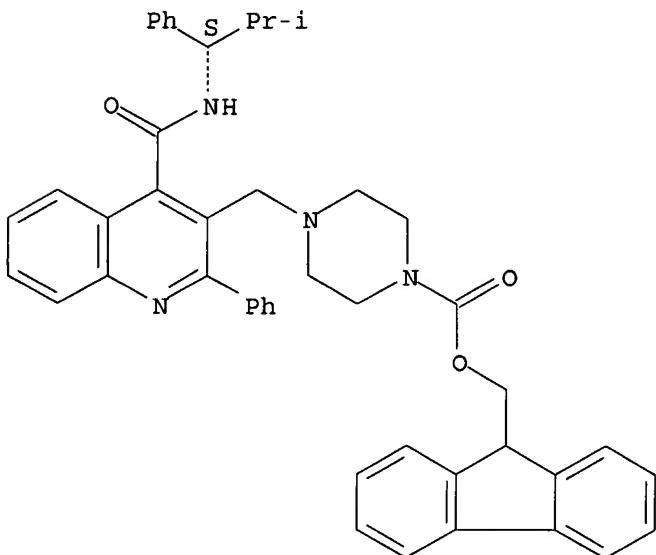
Absolute stereochemistry.



RN 270574-14-6 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-[[[(1S)-2-methyl-1-phenylpropyl]amino]carbonyl]-2-phenyl-3-quinolinylmethyl]-, 9H-fluoren-9-ylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file caold			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
	ENTRY	SESSION	
FULL ESTIMATED COST	38.52	194.57	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL	
	ENTRY	SESSION	
CA SUBSCRIBER PRICE	-5.60	-5.60	

FILE 'CAOLD' ENTERED AT 16:42:04 ON 05 DEC 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> s 13
L5 0 L3

=> log h			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
	ENTRY	SESSION	
FULL ESTIMATED COST	0.42	194.99	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL	
	ENTRY	SESSION	
CA SUBSCRIBER PRICE	0.00	-5.60	

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 16:42:15 ON 05 DEC 2004